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FIGURE 1302B

TAATCGGGTACATGTTACTGTAATTAACCTCATTGCACCTTCAAAACCTAATTCCATCCTGAATTTATCAAGTAGT
TCAGTATTGTCATTTGTTTTGTTTTATTGAAAAGTAATGTTGTCTTAAGATTTAGAAGTGATTATTAGCTTGAG
AACTATTACCCAGCTCTAAGCAAATAATGATTGTATACATATTAAGATAATGGTTAAATGCGGTTTTACCAAGTT
TCCCCTTGAAAATGTAATTCCTTTATGGAGATTTATTGTGCAGCCCTAAGCTTCCTTCCCATTTCATGAATATAA
GGCTTCTAGAATTGGACTGGCAGGGGAAAGAATGGTAGAGACAGAAATTAAGACTTTATCCTTGTTTGCTTGTA
ACTATTATTTTCTTGCTAATGTAACATTTGTCTGTTCCAGTGATGTAAGGATATTAAGTTATTAAGCTAAATATT
AATTTTCAAAAATAGTCCTTCTTTAACTTAGATATTTTCATAGCTGGATTTAGGAAGATCTGTTATTCTGGAAGTA
CTAAAAGAATAATACAACGTACAATGTCTGCATTCACTAATTCATGTTCCAGAAGAGGAAATAATGAAGATATA
CTCAGTAGAGTACTAGGTGGGAGGATATGGAAATTTGCTCATAAAATCTCTTATAAAACGTGCATATAACAAAAT
GACACCCAGTAGGCCTGCATTACATTTACATGACCGTGTTATTTGCCATCAAAATAAAGTACTGAGTACTGACACCAG
ACAAAGACTCCAAAGTCATAAAATAGCCTATGACCAACTGCAGCAAGACAGGAGGTCAGCTCGCCTATAATGGTG
CTTAAAGTGTGATTGATGTAATTTTCTGTACTCACCATTTGAAGTTAGTTAAGGAGAACTTTATTTTTTTAAAAA
AAGTAAATGGCAACCACTAGTGTGCTCATCCTGAAGTGTACTCCAAATCCACTCCGTTTTTAAAGCAAAATTAT
CTTGATGATTTTAAAGAAAGAGTTTTCTATTTATTTAAGAAAGTAACAATGCAGTCTGCAAGCTTTTCAGTAGTTTT
CTAGTGCTATATTCATCCTGTAAACTCTTACTACGTAACCAGTAATCACAAGGAAAGTGTCCTTTTGCATATT
TCTTTAAATTCCTTTCTTTGGAAAGTATGATGTTGATAATTAACCTTACCCTTATCTGCCAAAACCAGAGCAAAAT
GCTAAATACGTTATTGCTAATCAGTGGTCTCAAATCGATTTGCCTCCCTTTGCCTCGTCTGAGGGCTGTAAGCCT
GAAGATAGTGGCAAGCACCAAGTCAGTTTCCAAAATTGCCCTCAGCTGCTTTAAGTGACTCAGCACCTGCCTC
AGCTTCAGCAGGCGTAGGCTCACCTGGGCGGAGCAAAGTATGGGCCAGGGAGAACTACAGCTACGAAGACCTGC
TGTCGAGTTGAGAAAAGGGGAGAATTTATGGTCTGAATTTTCTAACTGTCTCTTTCTTGGGTCTAAAGCTCATA
ATACACAAAGGCTTCCAGACCTGAGCCACACCCAGGCCCTATCCTGAACAGGAGACTAAACAGAGGCAAATCAAC
CCTAGGAAATACTTGCAATTCTGCCCTACGGTTAGTACCAGGACTGAGGTCATTTCTACTGGAAAAGATTGTGAGA
TTGAACCTTATCTGATCGCTTGAGACTCCTAATAGGCAGGAGTCAAGGCCACTAGAAAATTGACAGTTAAGAGCCA
AAAGTTTTTTAAATATGCTACTCTGAAAAATCTCGTGAAGGCTGTAGGAAAAGGGAGAATCTTCCATGTTGGTGT
TTTTCTGTAAAGATCAGTTTGGGGTATGATATAAGCAGGTATTAATAAAAATAACACACCAAAGAGTTACGTAA
AACATGTTTTTATTAATTTTGGTCCCCACGTACAGACATTTTATTTCTATTTTGAATGAGTTATCTATTTTCATA
AAAGTAAACACTATTAAAGTGCTGTTTTATGTGAAATAACTTGAATGTTGTTTCTATAAAAAATAGATCATAAC
TCATGATATGTTTGTAATCATGGTAATTTAGATTTTTATGAGGAATGAGTATCTGGAAATATTGTAGCAATACTT
GGTTTTAAATTTTGGACCTGAGACACTGTGGCTGTCTAATGTAATCCTTTAAATTTCTCTGCATTGTCAGTAAA
TGTAGTATATTATTGTACAGCTACTCATAATTTTTTAAAGTTTATGAAGTTATATTTATCAAATAAAAACTTTCC
TATAT

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FIGURE 1303

MQFRECSINGMKYQEINGRLVPEGPTPDSSEGNLSYLSSLSHLNNLSHLTTSSSFRTSPENETELIKEHDLFFKA
VSLCHTVQISNVQTDCTGDGPWQSNLAPSQLEY YASSPDEKALVEAAARIGIVFIGNSEETMEVKTLGKLERYKL
LHILEFDSDRRRMSVIVQAPSGEKLLFAKGAESSILPKCIGGEIEKTRIHVDEFALKGLRTLCAIYRKFTSKEYE
EIDKRIFEARTALQQREEKLA AVFQFIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKVWVLTGDKHETAVSV
SLSCGHFHRTMNILELINQKSDSECAEQLRQLARRITEDHVIQHGLVVDGTSLSLALREHEKLFMEVCRNCSAVL
CCRMAPLQKAKVIRLIKISPEKPITLAVGDGANDVSMIQEAHVIGIGIMGKEGRQAARNSDYAIARFKFLSKLLFV
HGHFYYIRIATLVQYFFYKNVCFITPQFLYQFYCLFSQQTLYDSVYLTLYNICFTSLPILIYSLLEQHVDPHVLQ
NKPTLYRDISKNRLLSIKTFLYWTILGFSHAFIFFFGSYLLIGKDTSLLGNGQMEGNWTFGTLVFTVMVITVTVK
MALETHFWTWINHLVTWGSIIIFYFVFSLFYGGILWPFLGSQNMVFVFIQLLSGSASWFAIILMVVTCFLDIIKK
VFDRHLHPTSTEKAQLTETNAGIKCLDSMCCFPEGEAACASVGRMLERVIGRCSPTHISRSWSASDPFYTNDRSI
LTLSTMDSSC

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FIGURE 1304

TTTAGCAGTCTGTGATGATCAGCAAAAAAGCACATAAAGTAAAAATTAGTTGACCATGCTAAATTCAATTCTGGA
ATTTTTTTTTTATTTGGGCATTTCTAGAACTTTTACATTTGAAAGTACATGATGAGTATTAGTAACGATGACTTA
TGTATAATCAGAATCTTTATGACAATTTAGTTTTACAAGGTCAGAAGAGATGAGTTTGCTAAACCCAGCTGTGAT
ACCTCAGTTGGAAAGGGAATTCAAAGGTATGCTTTGTAGAACAGAAAAGTATAGTTTTTTTTTTCATGAACTTTAA
TCATTTTCTGTTTTTCTCTATGTGAGTCAGCTACAAAAGTGGTCTAATTTTTTACAACAGTAGAACTTCCTCCTT
TTCTACTGTAATCTTCCCACTGACTTTACTGCACAGGTATGAAATACTAGTGTATTGGATCTTCAGTAACCTTTT
TATTTCCCTAGATGATTGAAATATAGGTATTTACTCCATTTAAACCAGGTGATAAGATGATGTAAATACTCAGGGA
GGGTATTAACCTTGTTACTTTTGCTCGTTTGGGGTGTAAGTGCCATGACTGAATAATCTTCAATTCATGATTCTA
GAGTAAGTTTAAATTTGGAAAAAGGGGCTTCACACATGGTGGTGGTTGAACATTGATTCTTTTATACTTAAAAAGA
TGAAAATGTTTTGTGGACTGATACATTTTATCTTACTGAATATGAATTGTTTATGTATCTCTACTGTCAAATAGC
CTTTTTGAACTCAGGAAAGACAAAGGTTCAATTACACCCTTTTGTCAATAAGCAAACCCAGGTATTTTTTTTTT
CTCCTGTTGTCTGGATATGGCAATAGATTTTTTAAATTGCTGTGAGAACCCATATATGAAAAGAGAGGAGTTGAA
TTGTGTGTGCCTTTTATGTCTTGAGATTTATATGTGGAAAAGACGACATCTACTTCAAACCTGTATTTTTTTCGTT
TTTTTTTTTTTTTGGGGAAGGGGGGAGAACGGGGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCGATCT
CAGCTGACTGCAACCTCCACCTCCCGGGTTCAAGGGATTCTGCCTCAGCCTCCCGAGTAGCTGAGACCACAGGTG
CGTGCCACCACACCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTAGTAGAGACGGATCACTCCTGAC
CACGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACCCCGGCCTGTATTTT
CAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGTAAGATAATGTCTCTTTGAGGCTTCCTATGGACTGCC
TTTATTTTAGTAACTCAAGACACCAGTTAACCTCAACAGAGTTTGGCCTTATTAGAATTTGTTGTGCATCTTA
TTGAAAGCCAGGTTTACATCACCTCACCCCATATTCTTTTTTAGTTAAATAAATTTACCATGCCAAGTAACCAGA
ATGGAGCAAATTGGTTGATCTTTAAGGCAGTAGGTTTGACTAGCTAGCTATCATTATTGTCACATCTAATGCTAG
GCACCAGAAACCATTTGAGCCAGGAGTGTGAATGAATAATTCCAGAGACACTTTAGACATTTTTTAATGTTTTAT
ATGAACATTTTACATTTGTGTGATTGCCTTAGATATTAAATTTTCTAGTGCTGATAAAAACAGCAACATTCATA
ACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTAATGGTTTCAAATAACTGCACCTGAATTTGTTTA
TGTGCCTTAAGTTCTCTAGTGCTATTTCAACTTTTTTTTCAATCTAAATGAAGCTTACCTTAGATAAGGTTTATA
TTTGTTCCTATAGAGTAAATAAACTTCCCTTCTTAAATTGTGTAATAAGCACCAACGTGTGGTTGCTTGGCAG
AATGAGAATGTTAAGGGAGATTGTTGGATGTTTGGAGTTTCATTATATTTTTTGTTTTTATTTTTTGATACCTAG
GTGCTTTTTTAAATATTTAGACAAATATCTATCTTACATTGATTAAACCCGTGTAAATTCATTTGCAGTATCTAC
ATCGAATGTCAAAAAGTATACTTATTTTTGTTCATACTTATGTACAATTTTTTCCCTCTTCAGGCTTTTTTCAT
TTACCTTTTTGAAAAAGCACTTACTCTCCCTTCCCTATCACCCCTCCCCAAGGTTTCTTTATTTAAATTTTTA
TTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGTTGAACAAAAGTATAATCTGCTTTACAACCTAGTAT
AGACCTAAGGTCATTTGCTTTCAATTAGAGGCTCCAGAGTCTTCATAGTGGAAGAATGCTTTGTATTTAATTGT
TCTTAGTTAAGTTGTAGCACGTGAATACTTACTTACATGTTTTGTTTAAATATACTTCTTGATAGTTTAAATTTT
TTAAAAGTTGTATCTAATAAAATGTCTTTTAACCATTATTACTTGACTATATGGTTGTATTAAATTTTTGTTTACG

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FIGURE 1305

MYLYCQIAFLKLRKDKGSITPLLSISKPGIFFFSCCLDMAIDFLNCCENPYMKREELNCVCLLCLEIYMWKRRHL
LQTVFFSFFFFFFGEGGRTGSCSVAQAGVQWRDLS

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FIGURE 1306

GTCTGGAATCAAGCGAACCATCAAAGAAACCGACCCTGATTACGAGGATGTATCTGTGGCCCTTCCAAATAAGCG
GCATAAAGCAATTGAGAATTCAGCTCGAGATGCTGCTGTGCAGAAGATTGAGACTATTATCAAAGAACAGTTTGC
TCTTGAAATGAAGAATAAGGAACATGAAATTGAAGTCATTGACCAGCGACTGATTGAAGCAAGAAGGATGATGGA
TAAACTGCGTGCCTGCATTGTAGCAAACACTACTATGCTTCTGCAGGTCTTCTAAAAGTTTCTGAGGGATCAAAGAC
ATGTGATACGATGGTTTTTAATCATCCTGCTATCAAGAAATTTTGGAAATCACCATCTAGGTCATCATCTCCTGC
CAATCAGAGAGCAGAAACACCATCAGCCAATCATTAGAAAGTGATTCTTTATCTCAGCACAAATGACTTCTTATC
TGACAAAGATAATAACAGCAATATGGATATAGAGGAAAGACTCTCAAACAACATGGAGCAGAGACCAAGCCGAAA
TACTGGAAGGGATACTTCTAGAATTACTGGCTCCCATAAAACAGAACAGCGGAATGCTGATCTCACAGATGAGAC
TTCAGGACTTTTTGTAAAGAAAACAATAGTAGTGGGCAATGTGTCCAAGTATATACCTCCGGATAAGAGGGAAGA
AAATGACCAGTCAACTCATAAGTGGATGGTATATGTCCGAGGGTCCCGTAGAGAACCCAGCATTAAATCATTTTGT
CAAGAAGGTTTGGTTCTTCCTTCATCCTAGCTATAAACCAAATGACCTTGTGGAAAGTTAGAGAGCCTCCTTTTCA
CCTGACCAGAAGAGGCTGGGGTGAGTTTCCCGTCAGAGTTCAAGTTCAATTTTAAAGACAGCCAGCTCAAACCACT
CAGCGTAAACACATCTGGAGGGGTGCAGACGATCCTGATGCCTGTGAATAAAGTGGTTCAGTCATTTTCTACCAG
CAAGCCACCTGCCATTCTGCCTGTAGCTGCCCCAACTCCAGTTGTCCCCAGCTCTGCTCCAGCAGCTGTTGCAAA
AGTGAAGACTGAACCAGAAACACCTGGACCGAGTTGCCTCTCTCAGGAGGGTCAGACAGCAGTGAAAACAGAAGA
AAGTTCTGAGCTGGGAACTATGTCAATTAAGATAGACCATTTAGAACTATCCAGCAACTCCTAACTTAGTAAAG
AAGATTCCATTAATCACTGCAAAAAGTGAAGATGCCAGCTGCTTTTCTGCAAAGTCTGTGGAGCAGTACTATGGC
TGGAACATTGGAAAAGGAGAGCCGCTGAGTGGCAAAGAGCAATGACAATGCGAAAAGTCTTACAAGAAATCCTG
GAGAAGAATCCGAGATTTACACCACTGACTCCCCTCAAACCAAGCACATCGCTCACTGGTGCCGCTGTCATGGC
TACACCCACCGGACCCTGAGAGCCTGAGGAATGACGGGGACTCCATCGAGGACGTGCTGACCCAGATCGACAGC
GAGCCCGAGTGCCCATCATCTCTCTCTGCTGACAACCTCTGCCGCAAACCTGGAGGACCTGCAACAGTTCCAG
CCCTGGTGACAGAGGAGACCCCGTCTCAAAAATTGATTGATCAATTCAGCATCTGAGGGCTGCAAGTACAGAAGG
AATCTATTCTCAGCAGGGCATAGGGCACGCACTGGCTTAACAGTTTAGTATATAAGGCTCAAATAGTCTATACCT
GAACTGCTATAAGCAAGGTCGATAGGGAAGTGGATAGATTGCTTCAGCAAAGTGAAGTGTGAGATCTCCAGGACA
GAGGGAGAAAGATCTGATCCAAATGAGAACAGATTGGTTATTGCAGGTATCACAGCCTAAAGAAATTATCTTTT
GCAAAAGAAATATTAAATGATTTAGCAGTCTCCACGTGTGTTAATGTTTCAAACGTGTATCATAATGTGTATAAT
TGTGTAACAAAATTGTCTACAATAAATCTTTTGGTATTGT

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FIGURE 1307

MKNKEHEIEVIDQRLIEARRMMDKLRACIVANYYASAGLLKVSEGSKTCDTMVFNHPAIKKFLESPSRSSSPANQ
RAETPSANHSESDSLSQHNDFLSDKDNNNSNMDIEERLSNNMEQRPSRNTGRDTSRITGSHKTEQRNADLTDETSR
LFVKKTIIVVGNVSKYIPDPKREENDQSTHKWMVYVRGSRREPSINHFVKKVWFFLHPSYKPNDLVEVREPPFHLT
RRGWGEFPVRVQVHFKDSQLKPLSVNTSGGVQTIILMPVNKVVQSFSTSKPPAILPVAAPTVPVPSSAPAAVAKVK
TEPETPGPSCLSQEGQTAVKTEESSELGNYVIKIDHLETIQLLT

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FIGURE 1308

ATGTCTAGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTA
GGTGGTACCAACCTTGACTTCCAAATGGACAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGA
GCCACTCAAATTGTTGGCCGCTTCACTCCTGGAACCTTCACTAGCCAGACCCAGGCAGCCTTCAGGGAGCCACGG
CTTCTAGTGGTTACTGATCCCAGGGCTGACCACCAGCCTCTCACAGAGACATCTTATGTTAACCTACCTACCATT
GCTCTATGTCACACAGATTTTCCTCTGCGCTATGTGGACATTGCCATCACATGCAACAACAAGGGAGCTCCCTCA
GTGGGTCCGAGCTGGTGGATGCTGGCCCTGGAAGTTCTGCGCGTGTGTGGCACCATTTCCTCGAACACCCATGG
GAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGGAAAAGAGGAGCAGGTTGCTGCTGAAAAG
ACTGTGACCAAGGAGGAATTTCAAGGGCAAATGGACTGCTCCAGCTCCTGAGTTCACCGCTATTCAGCCTGAGGTT
GGAGACTGGTCTGATGGTGTACAGGTGCCCTCTGTGCCTATTCATCAGGTCCCTACTGAAGACTGGAGTGCTCAG
CCTGCCACAGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGAAACAACCACTGAATGGTCT
TAA

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FIGURE 1309

MSRALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMDNTGQRAVLKFAAATGATQIVGRFTPGTFTSQTQAAFREPR
LLVVTDPRADHQPLTETSYVNLPTIALCHTDPLRYVDIAITCANNKGAPSVGPSWWMLALEVLRVCGTISLEHPW
EVMPDLYFYRDPEEIGKEEQVAAEKTVTKEEFQGKWTAPAPEFTAIQPEVGDWSDGVQVPSVPIHQVPTEDWSAQ
PATEDWSAAPTAAQATEWVETTEWS

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FIGURE 1310

TGCGTGCGGTGGCAGCTTCCTTGCGGAAGTGGTGACCGTGAGAGAAGAAGATGCGCGGCCCTGTAGTGGCGCCGC
CTGGTGTGGTGGTTAGTCGGGCTAACAAAGCGCAGCGGCGCGGGGCCGGGAGGCAGCGGTGGCGGGGGAGCCAGAG
GGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCCA
TCTCCAAGGACCAGCCTCGGGTCTCTTGCCCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGA
CTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGCTGGAAAGCTGCTCAAATCAAAGAACATTTACTGAAGT
CAAAGTGGTGCCGCCCTACATCTCTCAATGTGGTTTCAATAATTACATCAGAGCTCTATCGATCACTGGGAGATG
TCCTCCGTGATGTTGATGCCAAGGCTTTGGTGCGCTCTGACTTTCTTCTGGTGTATGGGGATGTCACTCTCAAACA
TCAATATCACCAGAGCCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGA
TCTTCAAGGAGTCATCCCCCAGCCACCCAACCTCGTTGCCACGAAGACAATGTGGTAGTGGCTGTGGATAGTACCA
CAAACAGGGTTCTCCATTTTCAAGACCCAGGGTCTCCGGCGTTTTGCAATTTCTCTGAGCCTGTTTCAGGGCA
GTAGTGATGGAGTGGAGGTTTCGATATGATTTACTGGATTGTCAATATCAGCATCTGTTCTCCTCAGGTGGCACAAC
TCTTTACAGACAACTTTACTACCAAACCTCGAGATGACTTTGTGCGAGGTCTCTTAGTGAATGAGGAGATCCTAG
GGAACCAGATCCACATGCACGTAACAGCTAAGGAATATGGTGCCCGTGTCTCCAACCTACACATGTACTCAGCTG
TCTGTGCTGACGTATCCGCCGATGGGTCTACCCCTCTACCCCAGAGGCGAACTTCACTGACAGCACCACCAGAG
GCTGCACTCATTCCCGGCACAACATCTACCGAGGGCCTGAGGTGAGCCTGGGCCATGGCAGCATCCTAGAGGAAA
ATGTGCTCCTGGGCTCTGGCACTGTCAATTGGCAGCAATTGCTTTATCACAACAGTGTCAATTGGCCCCGGCTGCC
ACATTGGTGATAACGTGGTGTCTGGACCAGACCTACCTGTGGCAGGGTGTTCGAGTGGCGGCTGGAGCACAGATCC
ATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAGGAACGAGTGACACTGAAACCACGCTCTGTCTCACTTCCC
AGGTGGTCTGTGGGCCCAAATATCACGCTGCCTGAGGGCTCGGTGATCTCTTTGCACCCTCCAGATGCAGAGGAAG
ATGAAGATGATGGCGAGTTCAAGTATGATTCTGGGGCTGACCAAGAAAAGGACAAAGTGAAGATGAAAGGTTACA
ATCCAGCAGAAGTAGGAGCTGCTGGCAAGGGCTACCTCTGGAAAGCTGCAGGCATGAACATGGAGGAAGAGGAGG
AACTGCAGCAGAATCTGTGGGGACTCAAGATCAACATGGAAGAAGAGAGTGAAGTGAAGTGAAGTGAAGTATGG
ATTCTGAGGAGCCGGACAGCCGGGGAGGCTCCCCCTCAGATGGATGACATCAAAGTGTTCCAGAATGAAGTTTTAG
GAACACTACAGCGGGGCAAAGAGGAGAACATTTCTGTGACAATCTCGTCCTGGAAATCAACTCTCTCAAGTATG
CCTATAACGTAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCCTGGAGTTCCCCCTGCAACAGATGG
ATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGCTGCTTCTCTGCTAAAGGCCTGGAGCCCTGTTTTTAGGA
ACTACATAAAGCGCGCAGCCGACCATTTGGAAGCGTTAGCAGCCATTGAGGACTTCTTCTAGAGCATGAAGCTC
TTGGTATTTCCATGGCCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCCTGGCTGAGGAAACAATTCTGAGCT
GGTTCAGCCAAAGAGATACAACCTGACAAGGGCCAGCAGTTGCGCAAGAATCAACAGCTGCAGAGGTTTATCCAGT
GGCTAAAAGAGGAGAGAGAGGAGTCATCTGAAGATGACTGAAAGTCACACTGCCTGCTCCTTTGGGTGTGATTGAG
TGCCCTCCTGGCTCCTGGGCTGGGACAAGTGAGGAAGTAGCTGCAGAGGGATGAGTGACCACCATCCAGGCTGAG
ACTGAAAGGAGCAGAGGCTGGAACCTACAGTATTTCTTTCCCTGCTAGCAACCATGTGCCTCCCATCCTGACTGTG
GAGTTGGGATGTGGAAGTGGGGCTGGAACAAAGCTTCTGCCTAGGGAGGAGCTAAGCAGGCCCGGCAGTTGGAGG
AAGGCCAGAGGAACAGCTTTGTGCTCCGGCTTTCCCTCAGGGAACAGCAGAGAGCAGTTGGCTCTTTCTGCTGCT
TGTATATGTTAATATTAAAAGAGAGTGGTGT

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FIGURE 1311

MAAPVVAPPGVVSRANKRSGAGPGGSGGGGARGAEEEEPPPLQAVLVADSFDRRFFPISKDQPRVLLPLANVAL
IDYTLEFLTATGVQETFFVCCWKAQIKEHLLKSKWCRPTSLNVVRIITSELYRSLGDVLRDVEDAKALVRSDFL
VYGDVISNINITRALEEHRLRRKLEKNVSVMTMIFKESSPSHPTRCHEDNVVVAVDSTTNRVLHFQKTQGLRRFA
FPLSLFQGSSDGVEVRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARV
SNLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRGPEVSLGHGSILEENVLLGSGTVIGSNCFIT
NSVIGPGCHIGDNVVDQTYLWQGVRAAGAQIHQSLLCDNAEVKERVTLKPRSVLTSQVVVGPNITLPEGSVIS
LHPPDAEEDDDGEFSDDSGADQEKDKVKMKGYNPAEVGAAGKGYLWKAAGMNMEEEEELQONLWGLKINMEEES
ESESEQSMDSEEPDSRGGSPQMDDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNVSLKEVMQVLSHV
LEFFLQQMDSPLDSSRYCALLLPLLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMALMAFYQLEI
LAEETILSWFSQRDTTDKGQQLRKNQQLQRFIQWLKEAEESSEDD

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FIGURE 1312

ATGGCGGCCCTGTAGTGGCGCCGCTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGCGGGGCCGGA
GGCAGCGGTGGCGGGGAGCCAGAGGGGCGGAGGAGGAACCGCCGCCCCCTACAAGCAGTTCTGGTGGCCGAT
AGCTTCGATCGCCGCTTCTTCCCCATCTCCAAGGACCAGCCTCGGGTCCTCTTGCCCCCTGGCCAATGTGGCATT
ATTGACTACACTCTGGAATTCCTGACTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGCTGGAAAGCTGCT
CAAATCAAAGAACATTTACTGTAAAGGCCCTGCAACTTTTCTTTCCATGTTTCGCCATCTTTTCCAGTTTTTCA
GGATGAATGTAACTAAGGGGAAATGTGAGAGGGGAAAAATGTGTCTACTTAGATGTCATTGTAAGTTCTAAGGT
ATTTTCTACACTTATCAGGAGGTGAGCAGCTGAACTTTGTATCTGTCTGTCTTGGGTTTTCTGTGACAAAGATT
AAAGAATAAACTTGGGTTTTTTCTGAATCTC

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FIGURE 1313A

CAAGCGACACAAATGAACACGCCTTCTCAGCCCCGCCAGCACTTCTACCCTAGCCGGGCCCCAGCCCCGAGCAGT
GCAGCCTCCCGAGTGCAGAGTGCAGCCCCCTGCCCGCCCTGGCCCAGCTGCCCATGTCTACCCTGCTGGATCCCAA
GTAATGATGATCCCTTCCCAGATCTCCTACCCAGCCTCCCAGGGGGCCTACTACATCCCTGGACAGGGGCGTTCC
ACATACGTTGTCCCGACACAGCAGTACCCTGTGCAGCCAGGAGCCCCAGGCTTCTATCCAGGTGCAAGCCCTACA
GAATTTGGGACCTACGCTGGCGCCTACTATCCAGCCCAAGGGGTGCAGCAGTTTCCCACTGGCGTGGCCCCCACC
CCAGTTTTGATGAACCAGCCACCCAGATTGCTCCCAAGAGGGAGCGTAAGACGATCCGAATTCGAGATCCAAAC
CAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTGGGGCCCGCACTGCCTCCACACCCACCCCTCCCCAGACG
GGAGGCGGTCTGGAGCCTCAAGCTAATGGGGAGACGCCCCAGGTTGCTGTTCATTGTCCGGCCAGATGACCGGTCA
CAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTGGCCAGAGCATAGCCCTTCAGAATCCCAGCCTTCGTCTG
CCTTCTCCGACCCCATCACCATCCCCAGTCTTGGAACCGGGGTCTGAGCCTAATCTCGCAGTCTCTCTATTCTCT
GGGGACACTATGACAACTATACAAATGTCTGTAGAAGAATCAACCCCATCTCCCGTGAAACTGGGGAGCCATAT
CGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCATACTGGAAGTAGAAGTGACACTTAGCAAACCGGTTCCA
GAATCTGAGTTTTCTTCCAGTCTCTCCAGGCTCCCACCCCTTTGGCATCTCACACAGTGGAATTCATGAGCCT
AATGGCATGGTCCCATCTGAAGATCTGGAACCAGAGGTGGAGTCAAGCCCAGAGCTTGCTCCTCCCCAGCTTGC
CCCTCCGAATCCCCTGTGCCCATTGCTCCAACCTGCCAACCTGAGGAAGTCTCAACGGAGCCCCCTCGCCACCA
GCTGTGGACTTAAGCCCAGTCAGTGAGCCAGAGGAGCAGGCCAAGGAGGTGACAGCATCAATGGCGCCCCCACC
ATCCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTACTTCCCCAGCTCAGGAGGAGGAAATGGAAGAAGAGAA
GAAGAGGAAGAAGGAGAAGCAGGAGAAGCAGGAGAAGCTGAGAGTGAGAAAGGAGGAGAGGAACTGCTCCCCCA
GAGAGTACCCCTATTCCAGCCAACCTTGCTCAGAATTTGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTG
CCAAAGAGGAGACGGAATAAAGGAGCTAAATAAGAAGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAG
GCGAACCCGGCAGTACCAGAGGTGGAAAATCAGCCTCCTGCAGGCAGCAATCCAGGCCAGAGTCTGAGGGCAGT
GGTGTGCCCCCACGTCTTGAGGAAGCAGATGAGACCTGGGACTCAAAGGAAGACAAAATTACAATGCTGAGAAC
ATCCAGCCCCGGGAACAGAAGTATGAATATAAGTCAGATCAGTGGAAAGCCTCTAAACCTAGAGGAGAAAAACGT
TACGACCGTGAGTTTCTGCTTGGTTTTTCAGTTTCATCTTTGCCAGTATGCAGAAGCCAGAGGGATTGCCACATATC
AGTGACGTGGTGCTGGACAAGGCCAATAAAACACCACTGCGGCCACTGGATCCCCTAGACTACAAGGCATAAAT
TGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTGGCCGGACAACCCTTAGCACCCGTGGGCCCCCAAGGGGT
GGGCCAGGTGGGGAGCTGCCCCGTGGGCCGGCTGGCTGGGACCCCGGCGCTCTCAGCAGGGACCCCGAAAAGAA
CCACGCAAGATCATTGCCACAGTGTTAATGACCGAAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAAACCC
AGCAGCAAGCGGACGGCGGCTGATAAGGATCGAGGGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATTC
CGCAGGGTGCGCTCCATCCTGAATAAACTGACACCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTG
GCCATCGACACCGAGGAACGCCTCAAAGGGGTCAATTGACCTCATTTTTTGAGAAGGCCATTTAGAGCCCAACTTC
TCTGTGGCCTATGCCAACATGTGCCGCTGCCTCATGGCGCTGAAAGTGCCCACTACGGAAGGCCAACAGTGACT
GTGAATTCGAAAGCTGTTGTTGAATCGATGTCAGAAGGAGTTTGAGAAAGACAAAGATGATGATGAGGTTTTT
GAGAAGAAGCAAAAAGAGATGGATGAAGCTGCTACGGCAGAGGAACGAGGACGCCTGAAGGAAGAGCTGGAAGAG
GCTCGGGACATAGCCCGGCGGCTCTTTAGGGAATATCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTA
ACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGCTTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGT
CGTCTGCTCACCACCATTGGCAAAGACCTGGACTTTGAAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAG
ATGGAATAATCATTAAAGAAAAGAAGACGTATCCCGCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGA
GGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTCCCAAGACCATTGACCAGATCCATAAGGAGGCTGAGATG
GAAGAACATCGAGAGCACATCAAAGTGAGCAGCTCATGGCCAAGGGCAGTGACAAGCGTCGGGGCGGTCTCTCA
GGCCCTCCCATCAGCCGTGGACTTCCCCTTGTGGATGATGGTGGCTGGAACACAGTTCCCATCAGCAAAGGTAGC
CGCCCCATTGACACCTCAGACTCACCAGATCACCAGCCTGGCTCCATCGATTCTAACAACCAGCTCTTTGCA
CCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGCTCAGGAGCCAAGCCCTCAGACGCAGCATCAGAA
GCTGCTCGCCAGCTACTAGTACTTTGAATCGCTTCTCAGCCCTTCAACAAGCGGTACCCACAGAAAGCACAGAT
AATAGACGTGTGGTGCAGAGGAGTAGCTTGAGCCGAGAACGAGGCGAGAAAGCTGGAGACCGAGGAGACCGCCTA
GAGCGGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCGTGCGGGACACCTGCTACCAAGCGGAGCTTC
AGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCCAGCCTGAGGGGCTGCGCAAGGCAGCTAGCCTCACG
GAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTGCCCTACCCCCAGTGAGCCCCCTGAAGGCGGCT

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FIGURE 1313B

CTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTGAGGAATATCTCCATCTCAATGACATGAAAGTA
GGCAGTCCAGTGCGTGACAGGAGCTGGCCTCACCCCTCCTTGCTCTTCATCTTTGTACGGCATGGTGTGAGTCTAC
GCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGCTGCACCAGCTGCTCTGTGCTGGGCATCTGTC
TACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGGCTGAGGACATGGAAATTGACATCCCCACGT
GTGGCTCTACCTAGCGGAAGTGGTAACACCCATTCTGCAGGAAGGTGGGGTGCCCATGGGGGAGCTGTTTCAGGGA
GATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGTTGCTGGAGATCCTGGGCCTCCTGTGCAAAAG
CATGGGTCCATAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGCTTAGCTGGAAGGAATTTCTACCTGAAGGCCA
GGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCCTGGGAGAGGAGTCGGAAGCCCCTGGCCAGAG
GGCACTCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGCTGAAGGAGGGCAGCAGTAACCAGCGGGTGT
CGACTGGATAGAGGCCAACCTGAGTGAGCAGCAGATAGTATCCAACACGTTAGTTCGAGCCCTCATGACGGCTGT
CTGCTATTCTGCAATTATTTTGGAGACTCCCCTCCGAGTGGACGTTGCAGTGCTGAAAGCGCGAGCGAAGCTGCT
GCAGAAATACCTGTGTGACGAGCAGAAGGAGCTACAGGCGCTCTACGCCCTCCAGGCCCTTGTAGTGACCTTAGA
ACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGGACGTGGTGAAGGAGGATGCCTTCTA
CAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGGCCCTTAAATCTGTCACAGCCTTCTT
CAAGTGGCTCCGTGAAGCAGAGGAGGAGTCTGACCACAAGTGAAGGGCTGGTGGGGCCGGGGACCTGGAGCCCCAT
GGACACACAGATGGCCCGGCTAGCCGCTGGACTGCAGGGGGGCGGCAGCAGCGCGGTGGCAGTGGGTGCCTGT
AGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCTTGGGGCTGCCTGGGCCCCCTCCAGGA
TGCCGCCAGGTGTCCCTCTCCTCCCCCTGGGGCACAGAGATATATTATATATAAAGTCTTGAAATTTGGTGTGTC
TTGGGGTGGGGAGGGGCACCAACGCCTGCCCCCTGGGGTCCCTTTTTTTTATTTTCTGAAAATCACTCTCGGGACTG
CCGTCTCGCTGCTGGGGGCATATGCCCCAGCCCCTGTACCACCCCTGCTGTTGCCTGGGCAGGGGGAAGGGGGG
GCACGGTGCCTGTAATTATTAAACAT

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FIGURE 1314A

[illegible]

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FIGURE 1314B

CCTCTCCTAGGTTGTGGGGCTGGTCCCCTGACACCCTTCTCCCCTTCCTGGTAGACCTTAAACCTCGCACACATG
TCCCCAGCATTTTCTCACCTGGATAAAGCCCATAGCTGGGTCTCAGGCTGGGCTCAGCAAAGGACTCGCCTTGC
AACCGACAGGCCATTCCACCCCCACACACAACCTCCCCTGTTTTACATTACCATGGCATCCCAGAGCAAGGA
CACAGGAGCCACAGGCCAGTTGAGGTTGGGCAAGGAGACTTCCAGGACTTCCAGACAGAGTACCAGGTTTTATT
TTTCACCTTATTCTCTACTTTAAACAAATCATAACTTTCTCTTTAAGCCTCTGCTATAAATTCTCCTGGCTCTCC
TGGGCTTCCATATTTTGGGGGCTGGGGTGTCAAAAGTGAGATGAAGTTCTTAGCTCCAGGTTTGGGGTAAACCA
AGGTAGGAACATTTTGGCATTATTTCAATTAACAATACTTCCTTGGACGGGTGCGGTGGCTCACGTCTGTAATC
CCAGCACTTTGGGAGGCTGAGACAGGTGGATCACTTGAGGTCGGGAGTTTCGAGACCAGCCTGGCCAACATAGCAA
AACCCTGTCTCTACTAAAAATACAAAAATTAGATGGGTGTTTTGGCACCTGCCTGTAATCTCAGCTACTCAGGAG
GCTGAGGCACAAGAATCGCTTGAATCCAGGAAGCAAGCGGAGGTTGCAGTGAGTTGAGATCGCACTCCAGCCTGG
GTGACAGAGTGAGATTCTGTCTCAAAAGCAAATAACAAAGAAAAACAATACTTCTGGGGTTTTGGTGTGCAGA
GGGCTTTGTTGGAAGTGTGACTCAATCTGCCTGCCTTCTGGGAGCTCTAGAATTGTTCCCAACCCAGTCCATGG
CTTCTAGCCACCACTACAGGGCTGTTTCATGTACTTCTCTCTCTGACTCTGTCTTGTCCGACTCTCTTGAGAATT
TCTCAACGATTGCTCATGCCTGTCAGTATCAGTGCTTCCATCGTTCCATCTTTGATTCACTTCTCTTTCCTTTCT
ATTTACTCCCAAAATGGAGTCATTCATCCTGATGTCCTCAATTGCTGCTGATATGCTGGTGATTCCCAAAATACAT
AGCTCCAACCCCAACTTCCCCCAGACTTTAGATCTGTATTGGTATTACCTACTGGACATCTCTATGGACAGTTC
CGTATAGACTCAACTCATCTGCCCAACCAAGTATGTTCCCTCCTGAATTCCCTCTCCTGGTTACTTCATCACAATCT
ACATAGGCTCACCAGCTAGAAACATTTATGAGCTTACATTCTTCTCCCATATCTTATCAGCATATCATATCCA
TTTCACTCCAACACTCTGTCTTGAATTTGGCCCTCCCTCTCCCCTCTCTACTTTAATTCATTGGAGCATGGGATT
TGGAGTTAGGTGGTTTTTGGGTTTGAATTCAGCTCTACTATTTTTGGTTGTGTGATAGAGTTATTTAACCTCTCT
GAGCCTCAGTTCCCTCGTATGTAAAATGATGATAATAATACCTACCTCACAGGGTTGTTGTGAGGATTTAAATTA
GATATTGTACGAAAAGTGCCTAGCACAGTGCCTGGCACACAGTAGAGTAGGTGCTCAATAAATGGTAGCTATTAT
TATT

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FIGURE 1315

[illegible]

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FIGURE 1316

GGTGGGCCCACACAAGCGGCGCACCGTTAAGATGGCGGCTGGGCTGCGGAAACGCGGCCGGTCCGGTTCCGCGGC
CCAGGCAGAGGGACTCTGCAAGCAATGGCTGCAGCGCGCCTGGCAAGAGCGGCGCCTGCTGCTGCGGGAGCCGCG
CTACACGCTGCTGGTGGCCGCTGCTCTGCCTGGCGGAGGTGGGCATCACCTTCTGGGTCAATCACAGGGTGGC
ATACACAGAGATTGACTGGAAGGCCTACATGGCCGAGGTAGAAGGCGTCATCAATGGTACCTATGACTATACCCA
ACTGCAGGGTGACACCGGACCACTTGTGTACCCAGCTGGTTTTCGTGTACATCTTTATGGGGTTGTACTATGCCAC
CAGCCGAGGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGCTACCTTGCTGCTTGTCTT
CTTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTTCTTCATGTGCTGCGCCTCTTACCGTGTCCA
CTCCATCTTTGTGCTGCGGCTCTTCAATGACCCAGTGGCCATGGTGCTGCTCTTCCTCAGTATCAACCTCCTGCT
GGCCCAGCGCTGGGGCTGGGGCTGCTGCTTTTTCAGCCTGGCAGTCTCTGTGAAGATGAATGTGCTGCTCTTCGC
CCCTGGGTTACTGTTTCTTCTCCTCACACAGTTTGGCTTCCGTGGGGCCCTCCCCAAGCTGGGAATCTGTGCTGG
CCTTCAGGTGGTGCTGGGGCTGCCCTTCCTGCTGGAGAACCCAGCGGCTACCTGTCCCGCTCCTTTGACCTTGG
CCGCCAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTCCTCCCAGAGGCGCTCTTCCTGCATCGAGCCTTCCA
CCTGGCCCTGTTGACTGCCACCTCACCTGCTCCTGCTGTTTGGCCCTCTGCAGGTGGCACAGGACAGGGGAAAG
TATCTTGTGCTGCTGAGGGATCCCTCCAAAAGGAAGGTTCCACCCAGCCCCCTTACACCCAACCAGATCGTTTC
TACCCTCTTCACCTCCAACCTTCAATTGGCATCTGCTTCAGCCGCTCCCTCCACTACCAGTTCTACGTCIGGTATTT
CCACACACTGCCCTACCTCCTGTGGGCCATGCCTGCACGGTGGCTCACACACCTGCTCAGGTTGTTGGTGCTGGG
GCTCATCGAGCTCTCCTGGAACACATACCCTTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGT
CATCCTGCTGCAGCTCTGGCTGGGCGCGAGCCTTTCCCCAAGAGCACCCAACACAGCAAGAAAGCCCACTGAAG
TCCACCCCTTTCCCTCAGGACCTGAGTCTACCCTCAGGACCTGGGGTGGGTTGGACTCTGCCCTTCCAAATAAAC
CTTGCTAAGTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1317

MAAGLRKRGRSGSAAQAEGLCKQWLQRAWQERRLLLREPRYTLLVAACLCLAEVGITFWVIHRVAYTEIDWKAYM
AEVEGVINGTYDYTQLQGDTGPDVYPAGFVYIFMGLYYATSRGTDIRMAQNIFAVLYLATLLLVFLIYHQTCKVP
PFVFFFMCASYRVHSIFVLRLEFNDPVAMVLLFLSINLLLAQRWGWGCCFFSLAVSVKMNVLFFAPGLLFLLLTQ
FGFRGALPKLGICAGLQVVLGLPFLLNPSGYLSRSFDLGRQFLFHWTNVNWRFLPEALFLHRAFLALLTAHLTL
LLLFALCRWHRTGESILSLLRDPSKRKVPPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFYVWYFHTLPYLLWAM
PARWLTHLLRLLVLGLIELSWNTYPSTSCSSAALHICHAVILLQLWLGPQFPKSTQHKKAH

FIGURE 1318

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FIGURE 1319

MASPGAGRAPPPELPERNCGYREVEYWDQRYQGAADSAPYDWFGDFSSFRALLEPELRPEDRILVLGCGNSALS YE
LFLGGFPNVTSDYSSVVVAAMQARYAHVPQLRWETMDVRKLDFPSASFDDVLEKGTLDALLAGERDPWTVSSEG
VHTVDQVLSEVSRVLVPGGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGGKLSVAQLALG
AQILSPPRPPTSPCFLQDSDHEDFLSAIQL

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FIGURE 1320

GAGGCTGCGCGCCGCAGGTTCCGGCTGCTGGCGGCGTTGCGGCCGCAGGTTTGA CTCCCCTGCGGTGCGGCCAG
CAGCCACAAAGCTCCCGCTGCCATTGCTCCTTGTACTCCCGCGTCACTGCCGCTGTCCAACCCCTCCCCGGGG
CTTGCGCGGCGGCTCCACACCCCTCGGCCCGTGTACGCGCTCTGCACCTGCCTGCCCCGAAAACATGTTGCAGAC
ACCAGAGAGCAGGGGGCTCCCGGTCCCGCAGGCCGAGGGGGAGAAGGATGGCGGCCATGATGGTGAGACCCGGGC
CCCGACCGCCTCGCAGGAGCGCCCCAAGGAGGAGCTTGGCGCCGGGAGGGAGGAGGGGGCTGCGGAGCCCGCCCT
CACCCGAAAGGCGCGAGGGCCTTGGCGGCCAAAGCCTTGGCAAGGCGCAGGGCCTACCGCCGGCTGAATCGGAC
GGTGGCGGAGTTGGTGAGTTTCTCCTGGTGAAAGACAAGAAGAGTCCCATCACACGCTCGGAGATGGTGAA
ATACGTTATTGGAGACTTGAAGATTCTGTTCCCGGACATCATCGCAAGGGCCGCAGAGCATCTGCGGTATGTCTT
TGGTTTTGAGCTGAAACAGTTTGACCGCAAGCACCACACTTACATCCTGATCAACAACTAAAACCTCTGGAGGA
GGAGGAGGAGGAGGATCTGGGAGGAGATGGCCCCAGATTGGGTCTGTTAATGATGATCCTGGGCCTTATCTATAT
GAGAGGTAATAGCGCCAGGGAGGCCAGGTCTGGGAGATGCTGCGTGGTTGGGGGTGCAACCCCTCAAAGTATCA
TTTCTCTTTGGGTATCCGAAGAGGCTTATTATGGAAGATTTTGTGCAGCAGCGATATCTCAGTTACAGGCGGGT
GCCTCACACCAATCCACCAGAATATGAATTCTCTTGGGGTCCCCGAAGCAACCTGGAAATCAGCAAGATGGAAGT
CCTGGGGTTCTGTGGCCAACTGCATAAGAAGGAACCGCAGCACTGGCCAGTGCAGTACCGTGAGGCCCTAGCAGA
CGAGGCCGACAGGGCCAGAGCCAAGGCCAGAGCTGAAGCCAGTATGAGGGCCAGGGCCAGTGCTAGGGCCGGCAT
CCACCTCTGGTGAGGGTTGGTGAAAAGTTGGCCAGTGGGTCCCCGTGAGGACGAACTACTGTCTGAGTCATAAG
TAATATGGGTGGGGCGAGGGTCTTATTTCTGTAGAAATCGTGTGACTTTAAGGATTTAGATTTTGTATCTTATGT
TTTGTAACATTTAATAATTACTGTTAAATGCTGTTTGTAAATGAGATTGGTCTACTTTTTCTGTAGGATTTTA
TTGTAGAGTTTTGCTGGTTTTGTAAATGGATGGAAGAAGTTTGTATTTATACTGTGATTTTGAACAGATTATGC
AACATTGGAAGGAAGGCTGTACTTTGATGGTTTGAAGGAAGTCTAGCAGTATGATGATCTGGTTCCAGGGGAAAAA
AATAGCTGGTTGGTGTCTAGCCCCCAACACTTTTGTCTGTTGTGTATAAAAGAAGAAAGACTGGCATGTACCTT
CATTTGCTTAGCTATTTGAGTATCTAGAGAAAAATTTAAATGCAATGAGTTAGCAGTATACCCTGGCACACTTAA
TAAATTAAACATTTGTGGAGC

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FIGURE 1321

MLQTPESRGLPVPQAEGEKDGGHDGETRAPTASQERPKEELGAGREEGAAEPALTRKGARALAAKALARRRAYRR
LNRTVAELVQFLLVKDKKKSPITRSEMVKYVIGDLKILFPDIIARAAEHLRYVFGFELKQFDRKHHTYILINKLK
PLEEEEEEDLGGDGPRLGLLMMILGLIYMRGNSAREAQVWEMLRRLGVQPSKYHFLFGYPKRLIMEDFVQQRYS
YRRVPHTNPPEYEFSWGPRSNLEISKMEVLGFVAKLHKKEPQHWPVQYREALADEADRARAKARAEASMRARASA
RAGIHLW

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FIGURE 1322

AGAGCTATGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGGAAACATG
TGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAA
CGATATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG
GAAGTTCCTGAAC TTCCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTC
CTTAAGAACTTAAAGCCTGGAATGATATCGAAAAGGCAGCAGCTACCAAGAAACCAGCCCCTGAAAAGAAGCCT
GCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATAAACTCTTAAATTTGATTATTCCATAAAGGTC
AAATCATTTTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGC

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FIGURE 1323

ATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGGAAAACATGTGTCGTGGAGGCCGA
AGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGATATGCCATCTGT
TCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTT
CCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTCCTTAAGAACTTAAA
GCCTGGAATGATATCGAAAAGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAGAAGCCTGTGGTAGGT
AAGAAAGGAAAAGAAGGCTGCTGTTGGTGTAAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACC
AAGAAACCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATTAAACT
CTTAAATTTGATTATTCCATAAAGGTCAAATCATTTTGGACAGCTTCTTTGAATAAAGACCTGATTATACAGGC
AGTGAGGAA

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FIGURE 1324

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPELPLVFEDKVEGYKKTKEAVL
LLKKLKAWNDIEKVYASQRMRAGTGKKPVVGKKGKKAAGVKKQKKPLVGKKAATKKPAPEKKPAEKKPTTEEK
KPAA

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FIGURE 1325

ATGACTGGAGTGAAGCTGGTCCTGAACTCGAGGCTGTGGAAAGCGCTCATGGAAAAGGCCTGTGCAAAATTATTA
CCCTTCTGTGAAGTACTTAAAACCTACTCAAGGTGCAAGCTTTACACACCAATGCCGGGCTTGATTAATGGTATC
AGAGGAGTTCGGTTCCCCCCGAGTTTTCTCCACCCTCTGAAAATGCGGCCGGAACCTAATCCGCTGCGAGGCT
GCAGCATCTTTCGGTGCTGTCCCTCCACACCCGTGTTATCCCCACCATCCCCAGGCCGCTGTTCCGGCTGCACT
TGCCTGTGTCATTTACCCCTCCCGGTGCTCTGGGGGGCAGCGCCTCTCAGACATTCCCTCAAAGTGCCTTCCCG
CCCCCTCCTCCCAACTGCGGAGCTCCGCCAAGCGTCTCTTCTCGCGAGCCTCCAAGTCCCTCGGGGCTCTCGAA
TCTCCAGAGACTGTGAAAGCCTCGCAACTCCGCGATCCCCATCCACTCGGGAGCCCCCGCACTCGCGCTCCGGG
GCGCCTCCCCCAGCAGTGTGGAAAGCCGCTCTCCCCGCGCTCCGGAACCGTTAGCCGCACCCGCCCAGCGCCTC
CCAGGAACCAAACCGGACCGGGCCGCGGGGGAGGGGGCGGTCAACCCGGGGGGGGTCAACCCAGCTACTGCACC
CCGACTTTGAAGATTCTGAATCAGCCCGTGAAGTCTAGCCGGCTGGGCCTGTCGGACCAGTGGCCGGACGCCCCCT
TCCGATCTCCCCCTGCCCCCGCAAAGCCCCCTCACCTGAGGCGGCCTCTCTCCTCCCCTTGACGCGGCCCGGC
GGCGCAGGCGCGCTCACGCACGCGCGCAGCGGGCCTGGGCGCCTGGGCGAAAGGCTGGGCCGAACCGCTCCGAAG
ACGGTGAACCGCTCCGCGCACCAGCGGCTGGACTCTGCGCCGCAGCTGCCAACCAGGCTGGAGCGCTGGCCCCGGC
CCCCCGCGGCTCGCTGCTCCGCCCGCCGCCATTGGCCCCGCGGCCCTTAG

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FIGURE 1326

MTGVKLVLSRLWKALMEKACAKLLPFCEVLKTYSRCKLYTPMPGLINGIRGVRFPPEFSPPSENAAGTLIRCEA
AASFGAVPSTPVLSPPSPGRCSGCTCLCHLPPPGALGGSASQTFPSNCFPPPPNCGAPPSVSSREPPSPLEGALE
SPETVKASQLRDPPSTREPPHSRSGAPPPRRVESRSPRAPEPLAAPARRLPGTKPDRAAGGGGGQPGGGHPSYCT
PTLKILNQPVNSSRLGLSDQWPDAPSDLPPAPAKPPHLRRPLSSPCSGPGGAGALTHARSGPGRLLGERLGRTAPK
TVNRSAHQRLDSAPQLPTRLERWPGPPRLAAPPAAIGPRP

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FIGURE 1327

AATTCCGGTTGAAACCATCCCTCAGCTCCTAGAGGGAGATTGTTAGATCATGAACTAATTACCATCCTTTTCCT
CTGCTCCAGGCTACTACTAAGTTTAACCCAGGAATCACAGTCCGAGGAAATTGACTGCAATGACAAGGATTTATT
TAAAGCTGTGGATGCTGCTCTGAAGAAATATAACAGTCAAACCAAAGTAACAACCAGTTTGTATTGTACCGCAT
AACTGAAGCCACTAAGACGGTTGGCTCTGACACGTTTTATTCTTTCAAGTACGAAATCAAGGAGGGGGATTGTCC
TGTTCAAAGTGGCAAAACCTGGCAGGACTGTGAGTACAAGGATGCTGCAAAAGCAGCCACTGGAGAATGCACGGC
AACCGTGGGGAAGAGGAGCAGTACGAAATTCTCCGTGGCTACCCAGACCTGCCAGATTACTCCAGCCGAGGGCCC
TGTGGTGACAGCCCAGTACGACTGCCTCGGCTGTGTGCATCCTATATCAACGCAGAGCCCAGACCTGGAGCCCAT
TCTGAGACACGGCATTTCAGTACTTTAACAACAACACTCAACATTCCCTCCCTCTTCATGCTTAATGAAGTAAACG
GGCCCAAAGACAGGTGGTGGCTGGATTGAACTTTCGAATTACCTACTCAATTGTGCAAACGAATTGTTCCAAAGA
GAATTTTCTGTTCTTAACTCCAGACTGCAAGTCCCTTTGGAATGGTGATAACCGGTGAATGTACAGATAATGCATA
CATCGATATTTCAGCTACGAATTGCTTTCCTTCTCACAGAAGTGTGACATTTATCCAGGGAAGGATTTTGTACAACC
ACCTACCAAGATTTGCGTGGGCTGCCCCAGAGATATACCCACCAACAGCCCAGAGCTGGAGGAGACACTGACTCA
CACCATCACAAAGCTTAATGCAGAGAATAACGCAACTTTCTATTTCAAGATTGACAATGTGAAAAAGCAAGAGT
ACAGGTGGTGGCTGGCAAGAAATATTTTATTGACTTCGTGGCCAGGGAAACCACATGTTCCAAGGAAAGTAATGA
AGAGTTGACCGAAAGCTGTGAGACCAAAAACTTGGCCAAAGCCTAGATTGCAACGCTGAAGTTTATGTGGTACC
CTGGGAGAAAAAAATTTACCCTACTGTCAACTGTCAACCACTGGGAATGATCTCACTGATGAAAAGGCCTCCAGG
TTTTTCACCTTTCGATCATCACGAATAGGGGAAATAAAAGAAGAAACAACCTAGTCACCTAAGGTCCTGCGAGTA
CAAGGGTCGACCCCCAAAGGCAGGGGCAGAGCCAGCATCTGAGAGGGAGGTCTCTTGACCAATGGGCAGAATCTT
CACTCCAGGCACATAGCCCCAACCACTCTGCCAGCAACCTTGAGAGGAAGGACAAGAAGAAAGATGGGATAGAA
TTTAAATAGAGAAGAATGCCATTTTATCACTCTGCCTCTGGGTGAAATAAAGATCAGTCTTGATGTTT

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FIGURE 1328

MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVDAALKKYNSQNQSNNQFVLYRITEATKTVGSDTFYSFK
YEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQYDCLGCVHPIS
TQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRITYSIVQTNCSKENFLFLTPDCKSLWNGD
TGECTDNAYIDIQLRIASFSONCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEETLTHITITKLNAENNATFYFK
IDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLDCNAEVYVVPWEKKIYPTVNCQPLGM
ISLMKRPPGFSFRRSSRIGEETTSHLRSCEYKGRPPKAGAEPASEREVS

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FIGURE 1329

GGCGGGAAGTGAAGCGACTGTGGGGACATCAGTGATCGTAAGTCTCCTGGGCCCCTTATTCTCAGATTAGGTGAC
GGAGCTAAGACTTCGAGACCATCTCGTCCTTTTTGTATCGCGGAAACCTGAGGAACGAGCCGGCGGCGGTGACCT
GCACGAGAAGCCAGGCTAACTGGGTGAAGTACCATGCAAGCATTCTTAAAGGTACATCCATCAGTACTAAACCC
CCGCTGACCAAGGATCGAGGAGTAGCTGCCAGTGCGGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCCGTTCCC
TGGGTGGAAAAATATCGCCCAAATGTGTGGATGAAGTTGCTTTCCAGGAAGAAGTGGTTGCAGTGCTGAAAAAA
TCTTTAGAAGGAGCAGATCTTCCTAATCTCTTGTGTTTACGGACCACCTGGAAGTGGAAAAACATCCACTATTTTG
GCAGCAGCTAGAGAACTCTTTGGGCCTGAACTTTTCCGATTAAGAGTTCTTGAGTTAAATGCATCTGATGAACGT
GGAATACAAGTAGTTCGAGAGAAAGTGAAAAATTTTGCTCAATTAAGTGTGTCAGGAAGTCGCTCAGATGGGAAG
CCGTGTCCGCCTTTTAAGATTGTGATTCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCAGCTTTAAGA
CGTACCATGGAGAAGGAGTCGAAAACCACCCGATTCTGTCTTATCTGTAAGTATGTCAGTCGAATAATTGAACCC
CTGACCTCTAGATGTTCAAAATTCGCTTCAAGCCTCTGTCAGATAAAATTCACAGCAGCGATTACTAGACATT
GCCAAGAAGGAAAAATGTCAAAATTAGTGATGAGGGAATAGCTTATCTTGTTAAAGTGTGAGAAGGAGACTTAAGA
AAAGCCATTACATTTCTTCAAAGCGCTACTCGATTAAACAGGTGGAAAGGAGATCACAGAGAAAGTGATTACAGAC
ATTGCTGGGGTAATACCAGCTGAGAAAATTGATGGAGTATTTGCTGCCTGTCAGAGTGGCTCTTTTGACAAACTA
GAAGCTGTGGTCAAGGATTTAATAGATGAGGGTCATGCAGCAACTCAGCTCGTCAATCAACTCCATGATGTGGTT
GTAGAAAATAACTTATCTGATAAACAGAAGTCTATTATCACAGAAAAACTTGCCGTAATTGACAAATGCCTAGCA
GATGGTGCTGATGAACATTTGCAACTCATCAGCCTTTGTGCAACTGTGATGCAGCAGTTATCTCAGAATTGTTAA
CGTGAATATATCTGGATGGGGGGTTTTGTAAATAATGAAGTTGTAATAAAAAATAAATGACCAAAAGCACC

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FIGURE 1330

CCTCCAACCACCTGCACGCCTGCCTGCCAGGGCCTCTCTGGGGCAGCCATGAAGTCCCTCGTCCTGCTCCTTTGT
CTTGCTCAGCTCTGGGGCTGCCACTCAGCCCCACATGGCCCAGGGCTGATTTATAGACAACCGAAGTGGCATGAT
CCAGAAACTGAGGAAGCAGCTCTGGTGGCTATAGACTACATCAATCAAAACCTTCCTTGGGGATACAAACACACC
TTGAACCAGATTGATGAAGTAAAGGTGTGGCCTCAGCAGCCCTCCGGAGAGCTGTTTGAGATTGAAATAGACACC
CTGGAACCACCTGCCATGTGCTGGACCCACCCCTGTGGCAAGATGCAGCGTGAGGCAGCTGAAGGAGCATGCT
GTCGAAGGAGACTGTGATTTCCAGCTGTTGAAACTAGATGGCAAGTTTTCCGTGGTATACGCAAAATGTGATTCC
AGTCCAGACTCAGCCGAGGACGTGCGCAAGGTGTGCCAAGACTGCCCCCTGCTGGCCCCGCTGAACGACACCAGG
GTGGTGCACGCCGCGAAAGCTGCCCTGGCCGCCTTCAACGCTCAGAACACGGCTCCAATTTTCAGCTGGAGGAA
ATTTCCCGGGCTCAGCTTGTGCCCTCCACCTTCTACCTATGTGGAGTTTACAGTGTCTGGCACTGACTGTGTT
GCTAAAGAGGCCACAGAGGCAGCCAAGTGTAACCTGCTGGCAGAAAAGCAATATGGCTTTTGTAAGGCAACACTC
AGTGAGAAGCTTGGTGGGGCAGAGGTGTCAGTGACCTGCACGGTGTTCCAAACACAGCCCGTGACCTCACAGCCC
CAACCAGAAGGTGCCAATGAAGCAGTCCCCACCCCGTGGTGGACCCAGATGCACCTCCGTCCCCCTCCACTTGGC
GCACCTGGACTCCCTCCAGCTGGCTCACCCCCAGACTCCCATGTGTTACTGGCAGCTCCTCCAGGACACCAGTTG
CACCGGGCGCACTACGACCTGCGCCACACCTTCATGGGTGTGGTCTCATTGGGGTCACCCTCAGGAGAAGTGTCG
CACCCCGGAAAAACACGCACAGTGGTGCAGCCTAGTGTTGGTGTCTGCTGCTGGGCCAGTGGTTCCCTCCATGTCCG
GGGAGGATCAGACACTTCAAGGTCTAGGCTAGACATGGCAGAGATGAGGAGGTTTGGCACAGAAAAACATAGCCAC
CATTTTGTCCAAGCCTGGGCATGGGTGGGGGGCCTTGCTCTGCTGGCCACGCAAGTGTCACATGCGATCTACATTA
ATATCAAGTCTTGACTCCCTACTTCCCGTCATTCCCTCACAGGACAGAAGCAGAGTGGGTGGTGGTTATGTTTGAC
AGAAGGCATTAGGTTGACAACTTGTCATGATTTTGACGGTAAGCCACCATGATTGTGTTCTCTGCCCTCTGGTTGA
CCTTACAAAAACCATTGGAAGTGTGACTTTGAAAGGTGCTCTTGCTAAGCTTATATGTGCCTGTTAATGAAAGTG
CCTGAAAGACCTTCCTTAATAAAGAAGGTTCTAAGCTG

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FIGURE 1331

MKSLVLLLCLAQLWGCHSAPHGPGLIYRQPNCDDEPETEEAALVAIDYINQNLPGYKHTLNQIDEVKVWPQQPSG
ELFEIEIDTLETTCHVLDPTPVARCSVRQLKEHAVEGDCDFQLLKLDGKFSVYAKCDSSPDSAEDVRKVCQDCP
LLAPLNDTRVVHAAKAALAAFNAQNNGSNFQLEEISRAQLVPLPPSTYVEFTVSGTDCVAKEATEAAKCNLLAEK
QYGFCKATLSEKLGGAEVAVTCTVFQTQPVTSPQPEGANEAVPTPVVDPDAPPSPPLGAPGLPPAGSPPDShVL
LAAPPQHQLHRAHYDLRHTFMGVVSLGSPSGEVSHPRKTRITVVQPSVGAAAGPVVPPCPGRIRHFKV

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FIGURE 1332

TTTCTTTAAGAGGAAGACGCGGTCGTAGGTGCGAGGATTTCTGGTCCGCATGCTCCTGCTCCTGACTCACCGCTG
TTCGCTCTCGCCGCCGAGGAACAAGTCGGTCATGAAGCCGCGCAGCAGCCATGGCTTTTAAGGATACCGGAAAAG
CACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCTAACAAGCCGCAGCGTAAAATCCTTGAAAA
AGGTGGGTGCTGACTTGATCAGAGGCGCAAAAGCAAAGAATCTCAAAGTGAAAGGAGGAGTTCGAATGCCTTCCA
AGACTTTGAGAATCACTACAAGAAAACTCCTTGTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAGAA
TTCACAAGCGACTCTTTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTACTGAGCCAG
GAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTTAATAAATTGATTACCAGTTGTT

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FIGURE 1333

GGAAAGACTATGTTTTAGGTGACCCGTGTGGCCTTTTTGTTGAGGCCCTTTAGGATACAAGGCCCCACCTAAAGA
CGCGACCCCTCCCGTAGGAGGGGGGAGGGCCCGGGGGCGGGAGCACAGCGGGGCCCCAGCCTCAGGCGGCGCGTC
ACTGAGCACAAAGGAGACAACAGCGAGGCGGCAGCGGGCGCTGATCTTCGCTCGCCAGCCACTCGCAATTGCGGT
TACAGACCTGCAGCTCCCCCTCCCCAGCCGGCCCCGCCCTTTCTGTCTCCTCTCTCCCTCCGTA CTGGACGG
CCCCGGTCCATTTCGGGGCTCCGGATATTTGGTATCGATTGGGGCCGGGGACGCGGAGCAGGTGGCCGCGGGCGG
GCAGCTGGGCCGCCAGCTTGGTGCTCGGGGACCGTCTCCCGCTGCTTTGGTCAACAGCCCCTGCCCGCCGACC
CGCTCCGTTCTCCGGCTGCGAGCCCTGCCGGCCGGACTTTGCGCCGCGTCCGGCGCTGCTGCTGCGCTCGGGGC
CCCCGCTCGGCGCCGGCGGTGACCGGGAAGCCCGCTTAAAGGGGCAACCGGGACCCTGGCCCCGTATGGCTGAAG
TCAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGATTTTGCTGTCTCTGGAGGACCACACCC
TGGCTCACAGCCTGCAGGAACAAGAGATTGAGCATCATTTGGCATCGAACGTTACGCGGAACCGTTTGGTCCAGC
ATGATCTCCAGGTGGCTAAGCAGCTCCAAGAGGAAGATCTGAAAGCGCAGGCCAGCTCCAGAAGCGCTACAAAG
ACCTTGAACAACAAGACTGTGAAATTGCTCAGGAAATTCAGGAGAAGCTGGCTATTGAGGCAGAGAGACGACGCA
TTCAGGAGAAGAAGGATGAGGACATAGCTCGCCTTTTGCAAGAAAAGGAGTTACAGGAAGAGAAAAAGAGAAAGA
AACACTTTCCAGAGTTCCCTGCAACCCGTGCTTATGCAGATAGTTACTATTATGAAGATGGAGGAATGAAGCCAA
GAGTGATGAAAGAAGCTGTATCTACTCCATCACGAATGGCCCCACAGGATCAGGAATGGTATGATGCTGAAATTG
CCAGAAAACCTGCAAGAAGAAGAACTTTTGGCTACCCAGGTGGACATGAGAGCCGCTCAAGTAGCTCAAGATGAAG
AAATCGCTCGACTTCTAATGGCTGAAGAAAAGAAAGCTTACAAAAAAGCCAAGGAGCGGGAGAAATCATCTTTGG
ACAAAAGAAAGCAAGACCCCGAGTGGAAGCCAAAAACAGCTAAAGCAGCAAATTCGAAGTCAAAAGAGAGTGATG
AACCTCACCATTCTAAGAATGAAAGGCCAGCACGGCCACCACCACCTATCATGACAGATGGTGAAGATGCGGATT
ACACTCATTTTACAAACCAGCAGAGTTCCACACGGCATTTCTCAAAATCAGAGTCCTCTCATAAAGGTTTTTCATT
ACAAACATTAACCTAGGAATCTGCCTTGAAATGGACTCACTATAGCAAATATTACTGGGTGATACAGAATG
AATTCTACACTTACTTTTTTCTCTGTGTTTGCAATTCCTGGGATTTATCCTCAAGTGCATTTCTGACCATAAGT
AATTTTAATTCATTTCAAATGTTTTGGTTATTTCATGATCACTTGGGCAGTATAAGAAAATGTAGCTTCTGAATAT
TGGCCACCTCTATGCTGCATATACTTCTTGGGATATAGTATCTAAGACCTTTGTAACTGCCATTTTGTAGGTA
TGGAGTTTGGTATCTAGGGAGTAGGCCTTATTTAGCAATTCAAATTTTATGGAGATGAATGATCAAAGTGAAACA
ATGTTTGGATGCAACGCAGAATAAAAGAATATAAGAAATAGCTTTTTGTTGCATTAATGTATGATATTTTGAAGG
ACAGAGCCTTTGCTTTTTGTATTCTTTAAGAAAAGCACAAACCATAAAGTATTTTAAAAAAGAAACACTTGGAGC
AATTGAAATATGTTATTCTGACTAGATGGACTGTAGAGGTTTTGCATTTCTCAGCCCTCCTGGGGAGATTGGCCT
AGATAGCATTCTTTAACACTTCCTCTGCTTTTGCTCAGTAGCAAGGCTTTCCCTAAGCTCCTGGGCAATGGAACA
TTTATTAGTATTTATTGACAAAATTTAGTTCTCTGAAATTTTAACTCATATATGAAAACTTTGTATTCCAT
CTCTTCTTTTTTCATTTACTTGTAGAGCCAAGGAAATGGAATTGAAAGATGATTGCATAAGTAATGATGCCATCCT
TCTCTCTGGCTGTAGACTGAGGCTTTTCTCTTGCTTCAAGTCAGAGCAGTATTTGTTGATAACCTCTCAATAATG
TTTGGTTTACATGCCAGTAATTAAATTAATTCAACATGAAGTTGAATTTGATGAAGTGGTCATCTATCCAAGTAT
TTGGTTTTTGTGTTTTGTTTTGTTTTGTTTTGAGTTGGAGTCTCGCCCTGTCACACAGGCTGGAGTGCAGTGGTG
CAATCTTGGCTCACTGCAACCTCCGCCACCTGGGCTGGAGCAATCCCCTGCCTCAGCCTCCCAAGTAGCTGGAA
TTACAGGCATGTGTCACCACACCCGGCTAATTTTGTATTTTGTAGTAAAGAGCGGGTTTACCATGTTGGCCAGG
CTGGTCTCGAACCCCTGACCTCAAGTGATCCACCTGC

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FIGURE 1334

MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAKQLQEEDLKAQAQLQK
RYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKKRKKHFPEFPATRAYADSYYYEDGG
MKPRVMKEAVSTPSRMAHRDQEWYDAEIAARKLQEEELLATQVDMRAAQVAQDEE IARLLMAEEKKAYKKAKEREK
SSLDKRKQDPEWKPKTAKAANSKSKESDEPHHSKNERPARPPPPIMTDGEDADYTHFTNQQSSTRHFSKSESSHK
GFHYKH

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FIGURE 1335A

CGTTGATATCAAAGACAGTTGAAGGAAATGAATTTTGAAGTTTACAGGTGTGCCACCCTACAGTACTGCCCTGAC
CCTTACATCCAGCGTTTCGTAGAAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATGTCC
CAGAGCACACAGACAAATGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATA
TGTTCAAGTTTCAAGCCATTGACTTGAACCTTTGTGGATGAACCATCAGAAGATGGTGGCAGACAAACAAGATTGAGATT
AGCATGGACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTC
CTGAACAGCATGGACCAGCAGATTTCAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAGAAC
AGCGTCACGGCGCCCTCGCCCTACGCACAGCCCAGCTCCACCTTCGATGCTCTCTCTCCATCACCAGCCATCCCC
TCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGTCTTCCAGCAGTCGAGCACCAGCCAAGTCGGCCACC
TGGACGTATTCCACTGAAGTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATG
ACCCACCTCCTCAGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCTGAGCACGTCACGGAGGTGGTG
AAGCGGTGCCCCAACCATGAGCTGAGCCGTGAATTCACGAGGGACAGATTGCCCTCCTAGTCAATTTGATTTCGA
GTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATCAGGAAGACAGAGTGTGCTGGTACCTTATGAG
CCACCCAGGTTGGCACTGAATTCACGACAGTCTTGTACAATTTTCATGTGTAACAGCAGTTGTGTTGGAGGGATG
AACCGCCGTCCAATTTTAATCATTGTTACTCTGGAAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTTGAG
GCCCCGATCTGTGCTTGCACAGGAAGAGACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGAC
AGTACAAAGAACGGTGATGGTACGAAGCGCCGTTTCGTGAGAACACACATGGTATCCAGATGACATCCATCAAG
AAACGAAGATCCCAGATGATGAAGTGTATCTTACAGTGAGGGGGCCGTGAGACTTATGAAATGCTGTTGAAG
ATCAAAGAGTCCCTGGAAGTTCATGCAGTACCTTCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAG
CAGCACCAGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGTAACAGCTCCCCACCTCTG
AACAAATGAACAGCATGAACAAGCTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACT
CCTACAACCATTCCTGATGGCATGGGAGCCAAACATTCCCAGTATGGGCACCCACATGCCAATGGCTGGAGACATG
AATGGACTCAGCCCCACCCAGGCACTCCCTCCCCCACTCTCCATGCCATCCACCTCCCAGTGCACACCCCCACCT
CCGTATCCCACAGATTGCAGCATTGTGAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATGTCTGGACTATTTACAG
ACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATCTGGCAAGTCTGAAAATCCCTGAG
CAATTTGACATGCGATCTGGAAGGGCATCCTGGACCACCGGCAGCTCCACGAATTCTCCTCCCCTTCTCATCTC
CTGCGGACCCCAAGCAGTGCCTCTACAGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTATTGATGCT
GTGCGATTACCCCTCCGCCAGACCATCTCTTTCCACCCCGAGATGAGTGGAAATGACTTCAACTTTGACATGGAT
GCTCGCCGCAATAAGCAACAGCGCATCAAAGAGGAGGGGAGTGAAGCCTCACCATGTGAGCTCTTCCTATCCCTC
TCCTAACTGCCAGCYCCCTAAAGCACTCCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCCTTCTCTT
GTCTGATTTCTTAGGGGAAGGAGAAGTAAGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATT
CTGGCTTTAAGCCTTCAAAGCTATAGCTTGCAGAACTGTAGCTGCCATGGCTAGGTAGAAGTGAGCAAAAAAGAG
TTGGGTGTCTCCTTAAGCTGCAGAGATTTCTCATTGACTTTTATAAAGCATGTTACCCCTTATAGTCTAAGACTA
TATATATAAATGTATAAATATACAGTATAGATTTTGGGTGGGGGCATTGAGTATTGTTTAAATGTAATTTAA
ATGAAAGAAAATTGAGTTGCACCTTATTGACCATTTTTTAATTTACTTGTGTTTGGATGGCTGTCTATACTCCTTC
CCTTAAGGGGTATCATGTATGGTATAGGTATCTAGAGCTTAATGCTACATGTGAGTGACGATGATGTACAGATT
CTTTCAGTTCTTTGGATTCTAAATACATGCCACATCAAACCTTTGAGTAGATCCATTTCCATTGCTTATTATGTA
GGTAAGACTGTAGATATGTATTCTTTCTCAGTGTGGTATATTTTATATTACTGACATTTCTTCTAGTGATGAT
GGTTCAGTTGGGGTGATTTAATCCAGTTATAAGAAGAAGTTCATGTCCAAACGTCCTCTTTAGTTTTTGGTTGG
GAATGAGGAAAATTCTTAAAGGCCCATAGCAGCCAGTTCAAAAACACCCGACGTCATGATTTGAGCATATCAG
TAACCCCTTAAATTTAATACCAGATACCTTATCTTACAATATTGATTGGGAAAACATTTGCTGCCATTACAGAG
GTATTAATAACTAAATTTCACTACTAGATTGACTAACTCAAATACACATTTGCTACTGTTGTAAGAATTCTGATTG
ATTTGATTGGGATGAATGCCATCTATCTAGTTCTAACAGTGAAGTTTTACTGTCTATTAATATTACAGGGTAAATA
GGAATCATTAGAAATGTTGAGTCTGTACTAAACAGTAAGATATCTCAATGAACCATAAATTCAACTTTGTAATA
ATCTTTTGAAGCATAGATAATATTGTTTGGTAAATGTTTCTTTTGGTAAATGTTTCTTTTAAAGACCTCC
TATTCTATAAACTCTGCATGTAGAGGCTTGTTTACCTTTCTCTCTCTAAGGTTTACAATAGGAGTGGTGATTTG
AAAAATATAAAATTATGAGATTGGTTTTCTGTGGCATAAATTGCATCACTGTATCATTTTCTTTTTTAACCGGT
AAGAGTTTCAGTTTGTGGAAGTAACTGTGAGAACCAGTTCCCGTCCATCTCCCTTAGGGACTACCCATAGA
CATGAAAGGTCCCCACAGAGCAAGAGATAAGTCTTTCATGGCTGCTGTTGCTTAAACCACTTAAACGAAGAGTTC

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FIGURE 1335B

CCTTGAAACTTTGGGAAAACATGTTAATGACAATATTCCAGATCTTTCAGAAATATAACACATTTTTTTGTCATGC
ATGCAAATGAGCTCTGAAATCTTCCCATGCATTCTGGTCAAGGGCTGTCATTGCACATAAGCTTCCATTTTAATT
TTAAAGTGCAAAAGGGCCAGCGTGGCTCTAAAAGGTAATGTGTGGATTGCCTCTGAAAAGTGTGTATATATTTTG
TGTGAAATTGCATACTTTGTATTTTGATTATTTTTTTTTCTTCTGGGATAGTGGGATTTCCAGAACCACACTT
GAAACCTTTTTTTATCGTTTTTTGTATTTTCATGAAAATACCATTTAGTAAGAATACCACATCAAATAAGAAATAA
TGCTACAATTTTAAGAGGGGAGGGGAAGGGAAGTTTTTTTTTATTATTTTTTTAAAAATTTTGTATGTTAAAGAGA
ATGAGTCCTTGATTTCAAAGTTTTGTTGTACTTAAATGGTAATAAGCACTGTAAACTTCTGCAACAAGCATGCAG
CTTTGCAAACCCATTAAGGGGAAGAATGAAAGCTGTTTCTTGGTCCTAGTAAGAAGACAAACTGCTTCCCTTACT
TTGCTGAGGGTTTGAATAAACCTAGGACTTCCGAGCTATGTCAGTACTATTCAGGTAACACTAGGGCCTTGGA
TTCTGTACTGTGTCICATGGATTTGGCACTAGCCAAAGCGAGGCACCTTACTGGCTTACCTCCTCATGGCAGC
CTACTCTCCTTGAGTGTATGAGTAGCCAGGGTAAGGGGTAAAGGATAGTAAGCATAGAAACCACTAGAAAGTGG
GCTTAATGGAGTTCTTGTGGCCTCAGCTCAATGCAGTTAGCTGAAGAATTGAAAAGTTTTTGTGTTGGAGACGTTT
ATAAACAGAAATGGAAAGCAGAGTTTTTCATTAAATCCTTTTACCTTTTTTTTTCTTGGTAATCCCCTAAATAA
CAGTATGTGGGATATTGAATGTTAAAGGGATATTTTTTTCTATTATTTTATAATTGTACAAAATTAAGCAAAT
GTTAAAAGTTTTATATGCTTTATTAATGTTTTCAAAGGTATTATACATGTGATACATTTTTTAAGCTTCAGTTG
CTTGCTTCTGGTACTTTCTGTTATGGGCTTTTGGGAGCCAGAAGCCAATCTACAATCTTTTTGTTTGCCAG
GACATGCAATAAAATTTAAAAAATAAATAAAACTAATTAAGAAATAAA

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FIGURE 1336

MNFETSRCATLQYCPDPYIQRVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVVFQHIWDFLEQPICSVQPIDLN
FVDEPSEDGATNKIEISMDCIRMQSDLSLSDPMWFOYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQNSVTAPSPYA
QPSSTFDALSPSPAIPSNLDYPGPHSFDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVI
RAMPVYKKAHEVTEVVKRCPNHELSTREFNEGQIAPPSHLIRVEGNSHAQYVEDPITGRQSVLVPYEPPQVGTEFT
TVLYNFMCNSSCVGGMNRREPILIIIVTLETRDGQVLGRRCFEARICACPRDRKADEDSIRKQQVSDSTKNGDGTK
RPFRRQNTHGIQMTSIKKRRSPDDELLYLPVRGRETYEMLLKIKESLELMQYLPQHTIETYRQQQQQQHQHLLQKQ
TSIQSPSSYGNSSPPLNKMNSMNKLPSVSQLINPQQRNALPTTIPDGMGANIPMMGTHMPMAGDMNGLSPTQAL
PPPLSMPSTSQCTPPPPYPTDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKG
ILDHRQLHEFSSPSHLLRTPSSASTVSVGSSETRGERVIDAVRFTLRQTISFPPRDEWNDNFNFDMDARRNKQORI
KEEGE

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FIGURE 1337

CATTTTGCGAAGTTTAACCAACCCGGGTACCGCCGTTCTTGTCACCACCAACTGGTTTTGTAACAGTTGCGAGAAC
CTTCTCCTTCTTTTTCTTTCAACCTTGGATTTAGCGGCTGAGTACTTCCTCTTGTACATGGCCTTTCTGGAATC
CATGGCAGATCGGGAATACCTGCCAATTCCTCTGACAAGGACAGGGTTGCGGCTGCAATGGGGCTTCCCCTTGTT
GGGCTTTTTAGCTTTGAGGTTACCCTTTTTCACCTTGCCACCAGCATCAACCTTCTTGGCTTCGGGTTTCTTCTC
TTTAG

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FIGURE 1338

ATGCCTGCTGCCACGTGGCTGGTCCTCCTCCTGCTGTGGCTGAGCCTTGGGGTGAAGACAGCTTCTCAGATG
ACCAAGATGGTGCTGCAGATGGTGCTGAGGATGGAGAACCCACCAAGCCCCGCTAGGAGCCACCTAGACTGGATG
CAGAGCATGGAAATAAGCCTCGGTGTGGAGAGGGCCTGTCCTCAGGGCCTGGCAGATGTAGGCGATTCTTACCAC
GTCTCCTTCGCTACCCCGAAAGGCACAATCATAGGCCTTTCTCGTCTTTTAAGGGTTTTTACTTCCATGGGGAAC
TATGTGTTGGATGAGAAAAGTATCCGGGGGAAGGGGACAGAGGTTTCAAGAAAGCTCTGCGAGTCTGGACGCTGGTC
TGCCTTCTTGGCTCACCTTGAAGGTGGACGCTGGCCCCACACATCCCCTCTTAAAGACGCAGGCCGATAGCCAG
CAGATCCTGGGGCTTGCTGGCCCCAAAGCAGACACTGCGATGACAACGGACGACACAGAAGTGCCCGCTATGACT
CTAGACCCGGGCCACGCCGCTCTGGAAGCTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCCTCAACCCAGCC
GGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGAGTTTCACAAAA
ACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGGCAGCCCCGAGGGAGCT
GGAATGACCACAGTTTCAAGCATCACAGGCAGTGATCCCAGGGAAGCCATCTTTGACACCCCTTGCACCGATGAC
AGCTCTGAAGAGGCAAGACACTCACAATGGACATATTGACATTGGCTCACACCTCCACAGAAGCTAAGGGCCTG
TCCTCAGAGAGCAGCGCCTCTTCCGACAGCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCC
TCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCAT
CCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTC
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCC
CATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTG
TCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGC
AGCGCCTCTTCCGACGGCCTCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGC
CCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACC
CCCTCATGGTCCCCGGGATCTGACGTCACTCTCCTCGCTGAAGCCCTGGTGACTGTACAAAACATCGAGGTTATT
AATTGCAGCATCACAGAAATAGAAACAACGACTTCCAGCATCCCTGGGGCCTCAGACACAGATCTCATCCCCACG
GAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACAGCTCTGCCTGACTCCACTGAAGCAAAAACACATCACT
GAGGTCACAGCCTCTGCCGAGACCCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTGATGCCACGGTTGGG
ACCCCACTCCCCAATAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCTCAGTGGAGCTCTG
GTCACAGTTAGCAGGAATCCCCTTGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCA
GGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCTTTGCTGGGAGCTCTGCTTCC
TCCTACAGCCCCCTCGGAAGCCGCCCTCAAGAACTTCAACCCCTTCAAGACACCGACCATGGACATCGCAACCAAG
GGGCCCTTCCCCACAGCAGGGACCTCTTCCCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAAC
AGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAGCCCCCAACAGCCACGCCCACGACTGCCCCG
ACGAGGCCGACCACAGACGTGAGTGACAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAGTGTGGCTTCCCCG
GAAGACCTCACTGACCCACAGAGTGGCAGAAAGGCTGATGCAGCAGGAGAGGCTAACGGACATCAGCTGCAGCCAG
GCATGTCCCGTATGCCAAAAGAGGGTGCTGCCCTAGCCTGGGGCCCCACCGACAGACTGCAGCTGCGTTACTGT
GCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCTGACCCACAGATGTGGCAACAGGACC
CTCGCTCACATCCACCGGAGTTTTGTTACATTGTACGTGCTCGAGGACAAGCAGCCGGTAGTATTACCTCTGTC
ATCAGAGAAGCTGGCGTGGAGCCCTCCACATGA

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FIGURE 1339

MTTDDTEVPAMTLAPGHAALETQTLAETSSRASTPAGPIPEAETRGAKRISPARETRSFTKTSPNFMVLIATSV
ETSAASGSPEGAGMTTVQTITGSDPREAIFDTLCTDDISEEAKTLTMDILTLAHTSTEAKGLSSESSASSDGPHP
VITPSRÅSESSASSDGLHPVITPSRASESSASSDGLHPVITPSRASESSASSDGPHPVITPSWSPGSDVTLLAEA
LVTVTNIEVINCSITEIETTTSSIPGASDSDLIPTEGVKASSTSDPPALPDSTNTKPHITEVTASAETLSTAGTT
ESAAPDATIGTPLPTNSTIEREVTAPGATTLSGALATGNPLEETSALSVEPTPSYVKVSGAAPVSI EAGSAVGKTT
SFAGSSASSYSPLAALKNFTPSETLTTDIATKGPFPTSRAPLPSVPPTTTNSS

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FIGURE 1340A

ACGCCACCCCTCTTCCTGTCACCAGCCTTTTCCTCAGTATCCACAGGTACGCCACCCCTCTTGCTGTCAGCAGTG
CTACCTCAGCTTCCACAGTATCCTCGGACTCCCCCTCTGAAGATGGAAACACCAGGAATGACAACACCGTCACTGA
AGACAGACGGTGGGAGACGCACAGCCACATCACCACCCCCCACAACCTCCCAGACCATCATTTCCACCATTCCCA
GCACTGCCATGCACACCCGCTCCACAGCTGCCCCATCCCCATCCTGCCTGAGAGAGGAGTTTCCCTCTTCCCCT
ATGGGGCAGGCGCCGGGGACCTGGAGTTCGTAGGAGGACCGTGGACTTCACCTCCCCACTCTTCAAGCCGGCGA
CTGGCTTCCCCCTTGCTCCTCTCTCCGTGATTCCCTCTACTTCACAGACAATGGCCAGATCATCTTCCCAGAGT
CAGACTACCAGATTTTCTCCTACCCCAACCCACTCCCAACAGGCTTCACAGGCCGGGACCCTGTGGCCCTGGTGG
CTCCGTTCTGGGACGATGCTGACTTCTCCACTGGTCGGGGGACCACATTTTATCAGGAATACGAGACGTTCTATG
GTGAACACAGCCTGCTAGTCCAGCAGGCCGAGTCTTGATTAGAAAGATGACAAACAACGGGGGCTACAAGGCCA
GGTGGGCCCTAAAGGTCACGTGGGTCAATGCCACGCCTATCCTGCCCAGTGGACCCTCGGGAGCAACACCTACC
AAGCCATCCTCTCCACGACGGGAGCAGGTCTATGCCCTGTTTCTCTACCAGAGCGGTGGGATGCAGTGGGACG
TGGCCAGCGCTCAGGCAACCCGGTGCTCATGGGCTTCTCTAGTGGAGATGGCTATTTGAAAAACAGCCCACTGA
TGTCCCAGCCAGTGTGGGAGAGGTATCGCCCTGATAGATTCTGAATTCCAACCTCAGGCCTCCAAGGGCTGCAGT
TCTACAGGCTACACCGGGAAGAAAGGCCCAACTACCGTCTCGAGTGCCTGCAGTGGCTGAAGAGCCAGCCTCGGT
GGCCAGCTGGGGCTGGAACAGGTCTCCTGCCCTTGTTCTTGGCAGCAGGGACGACGGGACTTACGATTCCAAC
CCGTACGATAGGTGCTGGGGCTCGGCAGTAGGCAGCTGTGCAGCTTCACCTCTTGGCGAGGAGGCGTGTGCT
GCAGCTACGGGGCCCTGGGGAGAGTTTCGTGAAGGCTGGCACGTGCAGCGTCTTGGCAGTTGGCCAGGAACCTGG
AGCCACAGAGCTGGTGTGCTGCCGCTGGAATGACAAGCCCTACCTCTGTGCCCTGTACCAGCAGAGGCGGCCCCACG
TGGGCTGTGCTACATACAGGCCCCACAGCCCGCTGGATGTTGCGGGACCCCCACATCACCACCTTGATGGTG
TCAGTTACACCTTCAATGGGCTGGGGGACTTCTGTGCTGGTGGGGCCCAAGACGGGAACCTCCTCCTTCTGCTTC
AGGGCCGCACCGCCAGACTGGCTCAGCCAGGCCACCAACTTCATCGCCTTTGCGGCTCAGTACCGCTCCAGCA
GCCTGGGCCCCGTCACGGTCCAATGGCTCCTTGAGCCTCACGACGCAATCCGTGTCTGCTGGATAACCAGACTG
TGACATTTACGCTGACCATGAAGACGGCGGAGGCCAGGAGACGTTCAACGCCACCGGAGTCTCCTGAGCCGCA
ACGGCTCTGAGGTCTCGGCCAGCTTCGACGGCTGGGCCACCGTCTCGGTGATCGCGCTCTCCAACATCCTCCAGC
CCTCCGCCAGCCTCCCGCCCGAGTACCAGAACCGCACGGAGGGGCTCCTGGGGGTCTGGAATAACAATCCAGAGG
ACGACTTCAGGATGCCCAATGGCTCCACCATTCCCCCAGGGAGCCCTGAGGAGATGCTTTTCCACTTTGGAATGA
CCTGGCAGATCAACGGGACAGGCCTCCTTGGCAAGAGGAATGACCAGCTGCCTTCCAACCTTCAACCCTGTTTTCT
ACTCACAACCTGCAAAAAACAGCTCCTGGGCTGAACATTTGATCTCCAACCTGTGACGGAGATAGCTCATGCATCT
ATGACACCCTGGCCCTGCGCAACGCAAGCATCGGACTTCACACGAGGGAAGTCAGTAAAACTACGAGCAGGCGA
ACGCCACCCTCAATCAGTACCCGCCCTCCATCAATGGTGGTCTGTGATTGAAGCCTACAAGGGGCAGACCACGC
TGATTAGTACACCAGCAATGCTGAGGATGCCAACTTCACGCTCAGAGACAGCTGCACCGACTTGAGCTCTTTG
AGAATGGGACGTTGCTGTGGACACCCAAGTCGCTGGAGCCATTCACTCTGGAGATTCTAGCAAGAAGTGCCAAGA
TTGGCTTGGCATCTGCACTCCAGCCCAGGACTGTGGTCTGCCATTGCAATGCAGAGAGCCAGTGTGTGTACAATC
AGACCAGCAGGGTGGGCAACTCCTCCCTGGAGGTGGCTGGCTGCAAGTGTGACGGGGGCACCTTCGGCCGCTACT
GCGAGGGCTCCGAGGATGCCTGTGAGGAGCCGTGCTTCCCGAGTGTCCACTGCGTTTCTGGGAAGGGCTGCGAGG
CCTGCCCTCCAAACCTGACTGGGGATGGGCGGCACTGTGCGGCTCTGGGGAGCTCTTTCTGTGTGAGAACCAGT
CCTGCCCTGTGAATTACTGCTACAATCAAGGCCACTGCTACATCTCCAGACTCTGGGCTGTGAGCCATGTGCA
CCTGCCCCCAGCCTTCACTGACAGCCGCTGCTTCTGGCTGGGAACAACCTCAGTCCAACCTGTCAACCTAGAAC
TTCCCTTAAGAGTCATCCAGCTCTTGCTCAGTGAAGAGGAAAATGCCCTCCATGGCAGAAGTCAACGCCTCGGTGG
CATAAGACTGGGGACCTGGACATGCGGGCCTTTCTCCGCAACAGCCAAGTGAACGAATCGATTCTGCAGCAC
CGGCCTCGGGAAGCCCCATCCAACACTGGATGGTCACTCTCGGAGTTCCAGTACCGCCCTCGGGGCCCGGTCAATTG
ACTTCTGAACAACAGCTGCTGGCCGCGGTGGTGGAGGCGTTCTTATACCACGTTCCACGGAGGAGTGAGGAGC
CCAGGAACGACGTGGTCTTCCAGCCCATCTCCGGGGAAGACGTGCGCGATGTGACAGCCCTGAACGTGAGCACGC
TGAAGGCTTACTTCAGATGCGATGGCTACAAGGGCTACGACCTGGTCTACAGCCCCCAGAGCGGCTTCACCTGCG
TGTCCCGTGCAGTAGGGCTACTGTGACCATGGAGGCCAGTGCCAGCACCTGCCAGTGGGCCCCGCTGCAGCT
GTGTGCTCTTCTCCATCTACACGGCCTGGGGCGAGCACTGTGAGCACCTGAGCATGAACTCGACGCGTTCTTCG
GCATCTTCTTTGGGGCCCTGGGCGGCCTCTTGCTGCTGGGGGTCGGGACGTTCTGTGGTCTGCGCTTCTGGGGTT
GCTCCGGGGCCAGGTTCTCCTATTTCTGAACTCAGCTGAGGCCTTGCCTTGAAGGGGCAGCTGTGGCCTAGGCT

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FIGURE 1340B

ACCTCAAGACTCACCTCATCCTTACCGCACATTTAAGGCGCCATTGCTTTTGGGAGACTGGAAAAGGGAAGGTGA
CTGAAGGCTGTCAGGATTCTT

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FIGURE 1341

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCTTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAGTGCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGA
GAGACCAGGAGTTTCACAAAAACATCTCCCAACTTCATGGTGTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT
GACACCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCA
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCC
CATCCAGTCATCACCCCGTCATGGTCCCCGGGATCTGATGTCACTCTCCTCGCTGAAGCCCCCTGGTGACTGTAC
AAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACCTCCAGCATCCCTGGGGCCTCAGACAT
AGATCTCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGC
AAAACCACACATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCTGTTGAGACACCAAGTTA
CGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCCTTTGCTGG
GAGCTCTGCTTCCTCCTACAGCCCCCTCGGAAGCCGCCCTCAAGAACTTCACCCCTTCAGAGACACCGACCATGGA
CATCGCAACCAAGGGGCCCTTCCCCACAGCAGGGACCCCTCTTCCTTCTGTCCCTCCGACTACAACCAACAGCAG
CCGAGGGACGAACAGCACCTTAGCCAAGATCACAACTCAGCGAAGACCACGATGAAGCCCCCAACAGCCACGCC
CACGACTGCCCCGACGAGGCCGACACAGACGTGAGTGCAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAG
TGTGGCTTCCCCGGAAGACCTCACTGACCCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGGAACCTCA
CGCCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGACATCAGCTGCAGCCAGGCA
TGTCCCGTATGCCAAAAGAGGGTGTGCCCCTAGCCTGGGCCCCACCGACAGACTGCAGCTGCGTTACTGTGCT
GAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGATGTGGCAACAGGACCCTC
GCTCACATCCACCGAGTGTATGTATGGGGAGGGGCTTCACCTGTTCCAGAGGTGTCCTTGGACTCACCTTGGC
ACATGTTCTGTGTTTTAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCATCCTGCATTAAAATTCACTCA
GTGTGGCCAG

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FIGURE 1342

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHAALETQTLAETSSRASTPAGPI
PEAETRGAKRISPARETRSF TKTSPNFMVLIATSVETSAASGSPEGAGMTTVQTITGSDPEEAIFDTLCTDDSSSE
EAKTLTMDILTLAHTSTEAKGLSSESSASSDGPHPVITPSRASESSASSDGPHPVITPSRASESSASSDGPHPVI
TPSRASESSASSDGPHPVITPSWSPGSDVTLLEALVTVTNIEVINCSITEIETTTSSIPGASDIDLIPTEGVKA
SSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPHATVGTPLPTNSATEREVTAPGATTLGALVTVSR
NPLEETSALSVETPSYVKVSGAAPVSIEAGSAVGKTTSFAGSSASSYSPSEAALKNFTPSETPTMDIATKGPFPT
SRDPLPSVPPTTTNSSRGTNSTLAKITTSAKTTMKPPTATPTTARTRPTTDDVSAGENGGFLLLRLSVASPEDLTD
PRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

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FIGURE 1343

GGGCCGCACTGGACCAGGGATGAGAGTGGGTGCCCGGGACTCGCCTATACTGCCTGGGGGTGCAGCCCGCACTCC
TCACTATAGTCAAATCGACTATGCGTGCTTTCCAGGGGGCCCGGGAGAGGACTCCATGGGGAGGGATGCTTACCTT
GTGGGCTTTGGAATATAAGCCCTTTCATCTTCTCCGCTGGTCCTCACCACGTTGGCAAGGCAGGTATTGTGACCC
TGTTTTCTCAGGTGAGGACATGGAGGCTGGGAGGGGTCTAGAGACTGGCCTGGCTAGTAGGAGGCTGAGTCAGGA
TTTGAACCAGCAGATCATCTGACCCCAAGAGCCGGTCGTGGGCGGCACAGCGGGAGCTGCAACCGAGGCTCTTGAC
TCCTGCCTCGTCATTCCCTGAGGTCCACAGGACAACCAGCTGGGGACCTGGAGCCCCATCCTGACGTCCTGGGGA
GAGGTGCTAGGCCCCCTTTTGGGTCTATGAGCTACTTTTGGGCCAGTGGAGCCGGGTAAAGACCATCTCAAACCCCT
GTGCCAGGGGAGGTGAGACTCCAAGAGCGCCACCTTTGGGCTTCCAGCTGTGTGGGCTGCACCAAGAAGGCTCAG
AGAATTAGGGGGTTTCGTATTGTATCCTTTTCCCTTCCAAGACTGGGATTACCAGATAAAACACAGGGCATCCAGTT
ACATTTGAATTTTCAGGTAACAATTTTTTTTTTAAGTGTAAGTACGTAGCCAATATTGCATGAGAAATACTCATGCT
AAAAAGTTATTTCGTCAATTTATCTGAACGCGAGTTCAAATTTAACCGAGTACCCTGTATTTTTTATTGCTAAATC
TAGAAACCCCTCTCCAAGAGACTCCTTGGCCCACTCACAGGGAGAGCCCGATCTCCCTCTAGACAGGGGAGGCCCC
CTTTCTCAGGCCAGAAAAGATCTTGTAGTAAACTACTCAAGAGGCTGAGGCAGGAGGATCGCTTGAGCCCAGGAA
TTCAAGACCTGCCTGGGCAACAGAGCAAGACCCTGTCTCTAGGGAAGATATCCTACCGTAGCCTCCCTCGGGGAC
TCCCATTCCTCCCACCTCAGGGCCAGTCAAGGGAACAGGCCTCTGCTCTGGGCAGAAGTGCCGGCAGCCGCTCTC
TGAAAAGCTAGGTGTTGCCTCAGGGGCTCCCGGTGTCTGTGGAAAATGCCTGGCCACGGTTTCCATGGTTCCCA
GGCTCCAACCCCTGCAGTTCTCGGCCCTCATTAGGAGGGGCTCGGCAGGGTGGGGGGTGGCGTCTTCCCTTGC
CGGAGCCCCAAGGACTCTGCCGGCTCCCTCGCTTTGGCAGCAGCACTGCCACCCTGTCTCTGGAGGTTCCCCCG
CCTCAATCCACCCAGCTACCCCGAAAGGCACAATCATAGGCCCTTCTCGTCTTTTAAGGGTTTTTACTTCCATG
GGGAATATGTGTTGGATGAGAAAAGTACCCGGGGAAGGCGACAGAGGTTAGAAAAGCTCTGCGAGTCTTGACG
CTGGTCTGCCTTCTTGGCTCACCTTGAAGGTGGACGCTGGCCCCACACATCCCTCTTAAAGACGCAGGCCGAT
AGCCAGCAGATCCTGGGGCTTGCTGGCCCCAAGTGAGTTGTAGGGTTTTCAGAGGACGCCAGTCATGGCAACCCC
AGCTCCATGGCTGCCACACAGGCCTGGGCTTCCCAGGACTGCCTCCTTCTTGTTCGCTTATGTAGATGAAAAATG
AGGTAACGGCACTCCCTGCCCCACCTCCTCCCAGAAGTGCCAGGGTGTAATGCAATAGCTTGTGTGAAGTC
CACTGGAACCCAGGCTCACCAAGTCAGTCTTAACCAACACAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGA
CAACGGACGACACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAAACTCAAACGCTGAGCG
CTGAGACCTCTTCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTT
CCCCTGCAAGAGAGACCAGGAGTTTCAAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGA
CATCAGCCGCCAGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTTCAGACCATCACAGGCAGTGATCCCGAGG
AAGCCATCTTTGACACCCCTTTCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACAT
TGGCTCACACCTCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCTCTTCCGACGGCCCCCATCCAGTCA
TCACCCCGTACGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTACAGGGCCT
CAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTACGGGCCTCAGAGAGCAGCGCCTCTT
CCGACGGCCCCCATCCAGTCATACCCCGTACGGGCCTCAGAGAGCAGTGCTCTTCCGACGGCCCCCATCCAG
TCATACCCCGTACGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTACGGT
CCCCGGGATCTGATGTCACTCTCCTCGCTGAAGCCCCCTGGTGACTGTACAAACATCGAGGTTATTAATTGCAGC
ATCACAGAAATAGAAACAACAACCTTCCAGCATCCCTGGGGCCTCAGACATAGATCTCATCCCCACGGAAGGGGTG
AAGGCCTCGTCCACCTCCGATCCACAGCTCTGCCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTCA
GCCTCTGCCGAGACCTGTCCACAGCCGGCACCAAGAGTCACTGACCTCATGCCACGGTTGGGACCCCACTC
CCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCTCAGTGGAGCTCTGGTCACAGTT
AGCAGGAATCCCTGGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCT
CCGGTCTCCATAGAGGCTGGGTGAGAGTGGGCAAAACAACCTTCTTGTGGGAGCTCTGCTTCTCTCTACAGC
CCCTCGGAAGCCGCCCTCAAGAACTTACCCCTTCCAGAGACACCGACCATGGACATCGCAACCAAGGGGCCCTT
CCCACAGCAGGGACCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTA
GCCAAGATCACAACCTCAGCGAAGACCAGATGAAGCCCCATCTCTACTAAAAATACAAAATTAGCTGGGTGTG
GTGGCATGCACCTGTAGTCCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGCACCAGGGAGGTGGAGGTT
GCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAG

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FIGURE 1344

CTTTTGAGCAGGAGTCCGGGCCCTCGTGTACCGCTCTGAAGTCAAGGAGAGGCTGGGAGGCGGCAGAATGCAGC
CAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCTGCAACAGTACTTCCTGCGGCTCCGAG
ATGACCTCAACGTACCCGCCTGTCCCACTTTGAGTACGTCAAGAATGAGGACCTGGAGAAGATCGGCATGGGTC
GGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTGTGCAAACGCAAGTCGTGGATGAGTA
AGGTGTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTTCCGGAAGACCTCGC
CCGCCCCTGGGGGCCAGCAGGGGAGGGGCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCC
TCCTGGAGAAGCTGGGTGATGGTTCCCTTTGGCGTGGTGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGG
TGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCTGAGCCAGCCAGAAGCCATGGACGACTTCATCCGGGAGG
TCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTACGGGGTGGTGCTCACGCCGCCCATGAAGA
TGGCATCAGTTTCCCAAATTGCCTCGAGGGAGAGGCCTGAGAACTGCAGGACTCCTAGAGGTCCCCAGACAGCA
GGCCAGGAAGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGTAAGCACCAGGGCCACTTCCT
CCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTGGAGTCCAAGCGCTTTATTCA
CCGTGACCTGGCTGCCCCGAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATCGGGGACTTTGGGCTGATGCG
AGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCCTTCGCCTGGTGTGCCCCGA
GAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGAC

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FIGURE 1345

TGTCCTTCAGTGAAATGATACCGGTCCCCACTGCCAGCTCACCTCCCGGGGCTGCAGGAGGCACCGGAGATAATG
GCTGTAGAGGGTCTTGTAACCTGAACATTGCTTGCAAACATAAGGAATTCTAGTTACTGGGAGGAAGCACAGGGC
AGAGGCCAGAAGAGGCCCTCAGATTTGAGGCACCTAGCCCAGACGGATAAGGATCCACCAGCTCTGGGGGCGTG
AGACCCAAGCTGGCAAGAATCTGCAATCTGGAGCCAAGGCTGTGGGTGCCTCAGTGGAGGCCGAGTCAGACCGAC
GTGGCCAGCTTTGACCCTCATGGCCTCCTTTCTTCTGTCCCTTGACCTTCGGCTCCTCCCTGTCCACCCTGGCCT
CCGAGTCTCCTCCACTTTTCCTTCCGTCTCAGCCCTCAGCTCTAGGCGCCCCCTCCAGAGACCCAGCTGTCTTCCC
AGGCCCCCTTCCCAGCAAGGACTAGCTTCATCTGAACCACACACACTCACGGTTCAACCTCAGACTAAAATTAT
CCTCTCCCCTGGGCAGGATGAAGGGCAGCCGACTCCCTGGTGAGGGTGGAGACAGACAGCACCAAATGGTCAGGC
CAGAGAAGGGGCCAGGGCTAAAAATGGACAAGGAGGTGTCTGTGGAGGGCCCCCTGCGGCTCCATCGATCGGGGTT
AGGGCTGGAGTCTGCGGGGTGGCGGGTGCAGGAAGGGAGGGTGGGGCAGGACTGGGAGGAGACTCCGACCTTGGC
TGGGCGGTGCCCTCCCTCTCCACACAGCTGGGTGTGGGGCCGCTCAGCCACAGGCTGCATGCCTGTGCGTCTCTT
TCTGGCACCCCTCCTTGAGGCCAGCATCAGGCTTTGGGTTCATGTTTGGGGGTGTGCCCTGGACGGAGTGTGGGCC
TCCAGCCAGGCTGCCCCACTGACAGTTTGGCAAAAACAGGACCTATCTGGAAGCCGAAGCCGGGGATCACCAGGT
GGACCCAGCGGGGTGGGACTGAGTGACTGACCCCTGGGGTGTGGATTCCATCTGGCCCCCGGCTGCCTTCAAACA
GGTGTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTTCCGGAAGACCTCGCC
CGCCCCCTGGGGGCCAGCAGGGGAGGGGCCCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCCT
CCTGGAGAAGCTGGGTGATGGTTCCCTTTGGCGTGGTGCGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGGT
GAGCTCTCTGTGTCCTGCCAGCGCAGCAGAGGCATGGGACCCGGGGCTGGTAGTGGCTCTTCTGCCCCCAACCAG
GGTGTGGATGGGACTGGGGATGCGTCAAGTGTGGCTCATCCCAGAGTCCGTGCTCAGGATTTTTGGGGTTTTAT
TTATTTATTTATTTTTGAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTAGGCACGATCTCGGCTTCC
TGCAACCTCCACITTTCCGGTTCAAGCAATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCAC
CACCACACTCAGTTAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTC
CTGACCTCAGATGATCTGCCCACITTAGCCTCCCAAAGTGCTTGGATTACAGGTGTGAGCCACCACGTCCAGCCC
ATGCTCAGGTTTAACTAAGCACATTTATTATTTCAACTATAAAAATAATTTATTATAAAAGTTTGGAAAGTATTT
G

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FIGURE 1346

MRVRAGVCGVAGAGREGGAGLGSDSLGWAVPSLSTQLGVGPLSHRLHACRSLSGTLLEASIRLWVHVWGCALDG
VWASSQAAPLTVWQNQDLSGSRSRGSPGGPSGVGLSD

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FIGURE 1347

CATCCTCCCAGAGAAGGGGCCCCGAATCGCCGAAGGGCACTGCTTCGCCGATTAAAAAACAAAGCAAAAAGCCCC
GCATCTGCATCAGGAAGGCGCCTCTGCCTACTCTGGGAGAGAGAAGGGCACCCTCCCCCTTGCTACGTAGTCGT
CTGCGGAGGCACAACCGTGAAACGGGAGCCGCCACCACCACCACCGCTCAAACCTCTCGGCACTGGCTGGGGTA
CAGGGAGCGGCTGCGAGCGAATGGGATAAGCGAGCCTCCAGTTCCCCGCTCTCCAGAGCAAGTGGCTTCAGTGAT
ATCCAAGCGCCCTTCAGCACCCATTCCCTGCCTCGCCAGCAGGCACCGGGGCCCCACTTGGCGTTTGCGGATTT
CAGCTGAATGGGAGGCGACACAATGAGACAAGAGCAAACCGTTTCTCAGCGTTCTTGCCAGGGCCTTCCCGTCT
CGCGGCCCCGGCTCCCTCACCCGGAAGTGCTGGTCCCGGTACTGGCTCAGCTCCACGTAGGAGTCGCTGCGCAGC
GCCTTCAGGAGGCCACCCGACATAGTGCAGAGAAGCGGACCACAATGCGGCGACTCCCGGCACGAGGCTGCGTCC
GCGATGGCGGAAGCGGAAACGCGCGGAGGCGAGCATCTCATTGGACCCAATCCGAGGGCGGCAGTGTCTCATCA
AGCTGCGCGGGGGCATAGACGTCCGGGTGCGGCGCCGCGGGGCGGAAGACGAGGGCGGCGAGGTCGGGTTCGGG
CGCTTGAGAGAAGATGGTGCTGCGGCGGCTGCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCA
GAGTCGCGGCCCTATCCGACGTGCGGCGCAGCTCACGGCCTTCGCACTGCTGCAGGCCCAGCTGCGGGGCCAGGAC
GCGGCCCCGCCCTGCAGGACCTCGCGGCTGGGCCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGAC
GCCTTCACCCAGGAGCTACGCCGCGGCCTCCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGC
GCAAACATTTAATCCTGGGCTGTGCGGGGCCGAGGCTGCTTGCTTTTCCCTTCCGGGCTCTACAGTGGCATCAATG
TGGAGGGGTCATTCCGGGCACTGCGCGCGGCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCCACGCA
TAAGAGCCTAGGCCAGACCGCCCGCTCCGTTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGAAAGACCCCT
AAGCCTAACAGAGATGAAGGTAGGCTGGGTCCAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGC
CTTTCCTCTGCAAGTGGGACTGAAACTCTTGACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTC
CAGGGACGATATGGATGAAAAGACAACCTACAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAG
GCATGAGTGTGATACTTCTCAGGCAAGATGTGTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACAC
GTATTTTATGAAATGA

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FIGURE 1348

CCGGCTGCTGCGGACCTCCTCGGACCCGGACCCAGCCCCAGCCCGGCCCCAGCCAGCCCCGACGGCGCCATGCGG
GGTCCGAGCGGGGCTCTGTGGCTGCTCCTGGCTCTGCGCACCGTGCTCGGTGGCATGGAGGTGCGGTGGTGCGCC
ACCTCGGACCCAGAGCAGCACAAAGTGC GGCAACATGAGCGAGGCCTTCCGGGAAGCGGGCATCCAGCCCTCCCTC
CTCTGCGTCCGGGGCACCTCCGCCGACCACTGCGTCCAGCTCATCGCGGCCAGGAGGCTGACGCCATCACTCTG
GATGGAGGAGCCATCTATGAGGCGGGAAAGGAGCACGGCCTGAAGCCGGTGGTGGGCGAAGTGTACGATCAAGAG
GTCGGTACCTCCTATTACGCCGTGGCTGTGGTCAGGAGGAGCTCCCATGTGACCATTGACACCCTGAAAGGCGTG
AAGTCCTGCCACACGGGCATCAATCGCACAGTGGGCTGGAACGTGCCCGTGGGCTACCTGGTGGAGAGCGGCCGC
CTCTCGGTGATGGGCTGCGATGTACTCAAAGCTGTCAGCGACTATTTTGGGGGCAGCTGCGTCCCGGGGGCAGGA
GAGACCAGTTACTCTGAGTCCCTCTGTGCGCTCTGCAGGGGTGACAGCTCTGGGGAAGGGGTGTGTGACAAGAGC
CCCCTGGAGAGATACTACGACTACAGCGGGGCCCTCCGGTGCCCTGGCGGAAGGGGCAGGGGACGTGGCTTTTGTG
AAGCACAGCACGGTACTGGAGAACACGGATGAAAGTCCATCACGAAGGCAAACATGGACCAGATCTGAGGAGGAA
GAAGGCGAGTGCCCTGCACACGAGGAAGCACGTAGGACGATGCGCTCTAGTGCTGGGCAAGCCTGGAAATGGGCT
CCCGTTACAGGCCCCAGGACGAGTCTGACAAAGGAGAATTTGGAAAACGGGCAAAGAGTAGGGATATGTTGGGT
TAAGAAATCAGCTCTTTCAAACCTGGGGTTTTTTTTTGGGATGGGGGTCTCACCATGTTGCCAGGCTGGTCTCAA
CCCCAGCCTCAACTGATCCTCGCATCTCAGCCTCCTGAGTAGCTGGGATGACAGGCGTGACCTGGCAGCTTTT
TCAAAGTGTTGATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTTTAAGTGACTTTATACAGAAAGATTGGTAA
GAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGACTTTCATTGTTCTTGGCTGAGGAG
AAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTTGTCTGTGGGAAGGCAAATGATGCCCCAGAGCTCTA
ACCAAAGGTTTTTGAGCCGCCGAAAAACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAACAGT
GCTGTAAACTACCATGTGGCCATTAAACAATGACCTTTAGGGAGTTTTCTAAACGATCACTCTGGTGCGGGTGTT
TGGTTTTGTTTTAAATAGCTTTGCAGTGAAAGCTTTCATGACCATACAAATTATCTTTTTTCTTCTTCTTCTTCT
TGTAAGAGTTTTTTTTCTCCTTGCTTAAGGTCATAAAAAATATTGTTATGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1349

MRGPS GALWLLLALRTVLGGMEVRWCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQEADAI
TLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVVRRSSHVTIDTLKGVKSCHTGINRTVGWNVPVGYLVES
GRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSESLCRLCRGDSSGEGVCDKSPLEYYDYSGAFRCLAEGAGDVA
FVKHSTVLENTDESPSRRQWTRSEEEEGECPAHEEARRTMRSSAGQAWKWAPVHRPQDESDKGEFGKRAKSRDM
LG

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FIGURE 1350

GGGCGCCGCGGGGCGGAAGACGAGGGCGGCGAGGTCGGGTTCGGGGCGCTTGGAGAAGATGGTGCTGCGGCGGCT
GCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCAGAGTCGCGGCCTATCCGACGTGCGGCGCA
GCTCACGGCCTTCGCACTGCTGCAGGCCCAGCTGCGGGGCCAGGACGCGGCCCGCCGCTGCAGGACCTCGCGGC
TGGGCCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGACGCCTTCACCCAGGAGCTACGCCGCGGCCT
CCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGCGCAAACATTTAATCCTGGGCTGTGCGGGG
CCGAGGCCGCTTGCTTTTCCTTCGGGGCTCTACAGTGGCATCAATGTGGAGGGGTCATTCCGGGCACTGCGCGCG
GCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCACGCATAAGAGCCTAGGCCAGACCGCCCGCTCCG
TTGAAGTCTTGATTGGACAAGACACAGTGTGGAGACAGCCCTAAGCCTAACAGAGATGAAGGTAGGCTGGGTC
CAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGCCTTTCTCTGCAAGTGGGACTGAAACTCTTG
ACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTCCAGGGACGATATGGATGAAAAGACAACCCTA
CAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAGGCATGAGTGTGATACTTCTCAGGCAAGATGT
GTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACACGTATTTTATGAAATGA

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FIGURE 1351

MVLRRLLAALLHSPQLVERLSESRPIRRAAQLTAFALLQAQLRGQDAARRLQDLAAGPVGSLCRRRAERFRDAFTQ
ELRRGLRGRSGPPFGSQRGPGANI

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FIGURE 1352

ATGCCTGTCTTCATCTTGAAAGAAAAGCTCCAGGTCCCTTCTCCAGCCACCCAGCCCCAAGATGGTGATGCTGCT
GCTGCTGCTTTCCGCACTGGCTGGCCTCTTCGGTGCGGCAGAGGGACAAGCATTTCATCTTGGGAAGTGCCCCAA
TCCTCCGGTGCAGGAGAATTTTGACGTGAATAAGTATCTCGGAAGATGGTACGAAATTGAGAAGATCCCAACAAC
CTTTGAGAATGGACGCTGCATCCAGGCCAACTACTCACTAATGGAAAAACGGAAAGATCAAAGTGTTAAACCAGGA
GTTGAGAGCTGATGGAACGTGAATCAAATCGAAGGTGAAGCCACCCCAGTTAACCTCACAGAGCCTGCCAAGCT
GGAAGTTAAGTTTTCTGGTTTTATGCCATCGGCACCGTACTGGATCCTGGCCACCGACTATGAGAACTATGCCCT
CGTGTATTCCTGTACCTGCATCATCCAACTTTTTCACGTGGATTTTGCTTGGATCTTGGCAAGAAACCCTAATCT
CCCTCCAGAAACAGTGGACTCTCTAAAAAATATCCTGACTTCTAATAACATTGATGTCAAGAAAATGACGGTCAC
AGACCAGGTGAAGTGGCCCAAGCTCTCGTAACAGGTTCTACAGGGAGGCTGCACCCACTCCATGTTACTTCTGC
TTCGCTTTCCCCTACCCACCCCCCCCCATAAAGACAAACCAATCAACCACGACAAAGGAAGTTGACCTAAACAT
GTAACCATGCCCTACCCTGTTACCTTGCTAGCTGCAAAATAAACTTGTTGCTGACCTGC

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FIGURE 1353

MVMLLLLLSALAGLFGAAEGQAFHLGKCPNPPVQENFDVNKYLGRWYEIEKIPTTFENGRCIQANYSLMENGKIK
VLNQELRADGTVNQIEGEATPVNLTEPAKLEVKFSWFMPSPAPYWILATDYENYALVYSCTCIIQLFHVDFAWILA
RNPNLPPETVDSLKNILTSNNIDVKKMTVTDQVNCPKLS

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FIGURE 1354

GC GCGAGTGGGAGGTGGCAGGCCTGCGACTCCGGCCTTGTCCGCGCCCGCTCTCGGCGCGACGTCTCCAGCCATG
AACCGGTTTGGTACCCGGTTGGTGGGAGGCCACGGCGACTTCTTCGCCGCCGCCGAAGGCCCGCAGCAATGAAAAC
CTCGACAAAATAGATATGTCTTTGGATGATATCATCAAGTTGAATCGAAAGGAAGGGAAGAAGCAGAATTTTCCA
AGACTAAATAGAAGACTCCTCCAGCAAAGTGGTGCCAGCAATTCAGGATGAGAGTGCGATGGGGAATCCAACAG
AATTCTGGTTTTGGTAAGACTAGTCTGAATCATAGAGGAAGAGTAATGCCTGGAAAGAGACGTCTTAATGGAGTT
ATCACTGGCCTTGCGAGCTAGGAAAACGACTGGAATTCGAAAAGGAATTAGTCCTATGAATCGTCCACCTCTAAGT
GACAAGAATATAGAACAATATTTTCCAGTGTTAAAAAGGAAGGCCAACCTTCTGAGACAAAATGAAGGGCAGAGG
AAACCAGTAGCAGTTCTCAAGAGACCTAGCCAGCTAAGCAGAAAAATAACATTCCAGCTAATTTTACCAGGAGT
GGAAATAAATTAAATCATCAGAAAGATACTCGTCAGGCAACTTTTCTTTTCAGAAGAGGCCTGAAGGTGCAGGCC
CAGTTGAATACAGAACAACCTGCTAGACGATGTAGTAGCAAGAGAACTCGTCAATGGCGGACTTCCACCACAAAT
GGAGGGATTTTGACTGTATCTATTGACAATCCTGGAGCAGTGCAATGCCAGTAACTCAGAAACCACGATTAATCT
CGTACTGCTGTACCTTCATTTTAAACAAAGCGGGAGCAAAGTGACGTCAAGAAAGTTTCTAAAGGTGTTCCCTTG
CAGTTTGACATAAACAGTGTGCGAAAACAGACAGGGATGACGTTGAATGAGCGGTTTGGGATCCTGAAGGAACAA
AGAGCCACTCTCACATAACAACAAAGGGGGAAGCCGCTTTGTCAACCGTGGGATAGGTCCCATGTCAAAGGAACCTT
TGAGTGATGACTCTGAGAAGTTGAATTGCTTGAAGAGTTCATCACGGAAATTCAGAAACTTTACTTCAAATAT
TCACAAGGCTAAATAACTCTTATTTTATTTTGAAGGTTTTTTTTTTTAAAAAAGAGTATAAAATAATG
CCCTGAAAGAATAATAGGGATTATACCTGTCTGTTCTTAAAGATTTTCATGGTTGGCTCAGACAGAACAATCATCT
GTTTGACTTCTTTGGTTCTCATGCAGCAGAAGGAAGACAGAAGGATAGAAATTGATTATTTTATGATAGCGGT
ATTCAGGATCTCATCACCTTTGCCCGTGTTTTAGACTTTGTCTAGGTAAATCCTGGTCTTCATAACATGAGTAG
GTCCCTTGGTTGCTGTCACTTGCCCTTTAATAGTGTGATGTAGTCACTGCCGTTGCCTTTTCTTCATTAGAGAC
ACAGAACAATGTATTAGAATTTCCAGCTGTGGGTTTGAAGACTTAGGGGGACATCCAGAACGTGCTTCTCTTTC
AGACGGTGTAAGTCCCTGGAATTACACAGCTTTAGTGCTGAGCTTTTAAACAGGAATGTGGCCCTAGGTATTA
GTCTTAGTTTAAATGTTGGTGTTTAGAGACTGTAAATGCATATTCACAAAGTTATCTGATAGGGCCTTGAGGA
GAAGGTCCAGTTTTAAAAATGACAGTTTGTGTTTAAATAATGAAGGCATGAGAGGAAGTAAGTAGCAAGTTGAA
GGACAGGTAGTTGAGATGAAACACTTCAAACCCCTGGTTATAGATGTACTGTTTGGATGTAGCATAGTCTTGAGT
CTAGCGTCCACAAAGAATTATTCAAATGATATTTAGAAGAATTATACTATTACATTGAATGGAGTCCCTTGAT
ATTTTGATAGTAAATTAATAGCCATAAAGTCTAGACTTCTTATTTGAAGTTAAATTTCTTATTTGAAAAGTT
GAAATTTATGAGCTTTGAAGATTGCTAAATTAATAATTTATAGCTCCAAAAACAAAATATACTTGTATATGTC
ACAGAGAAAAAAATGCAAAATTTATAATAGAGTTACATTAACCTTGTTGTTTACCTTTCACTGATTTCTTATAT
GGTATAAATTAAGTTTCAGGCATTTATGGGGAGAAAAGGCCCTCCCCACCGACCCGCCACCTGCCACCTCTGACG
GAGTGGGAGAAGTTAGTCTGTGCTAAGATAGTACTGAGTCCCAGATGTTGTATACTGTAAATTACAGTATAATG
CCAAATGCAGCAAAATCTTCCAGCTGTACGTTACAAGTTTGGTCAATTTGAAGCTTGACATTTTAGTTTGCCATT
ATGTTAAAAACATCTAAATAGGTGTTAGTTTCTCAGGAGTAGATTGTTAGTGTGACTTTTCTGTAAAGCAGAC
ATCGTTCTTGGCCTGCCCTGCATTGTATACTAGATTTTATTGTTGTCTCTCATGCTTCTTGAGTTGCTTCATGGT
TTATGCTCGCCATGGAAGCTATCAGTAACAGTTTCATGCTTATACCAAAGAATTAAATCTGATCTTTAATATCT
GATATTTTCTTGGTACTCGTACTGATAAGGGATTATTGGAAGTCAGTCACAGAATTGGAATAAATCTAGTCT
CTCCTTAGCTATTTGATGCTTTTCATATAGGCCAAGAACTCATTGCAAAACATTTTGAAGCAAGGAAAAGCAGC
ATTTGGTCTAGGAACAGTACATTTTAGTCTGATTTAGAATTACTGGTAGCTTATTTTAAAGCAAGGAAAAGCAGC
TGAGCTCAAGTTTGCTGTCTTTAGAATGGTTTGTGAAAATATGGTATAAAGGTGTTTTCATTTTCTGTTCTTAC
CTATTATTGTATAGAGCTATTCATGCCATTTTGGGAAAACCTTTAAAAATTGCCCAAATACTGACATTGAGTG
CATTAAATAACAAATTATCTTTGATACATTAACTTTTATCTTCATGCATCTGTAATTTAATTTAAGTATAAT
GTTTTGCCTTTGGTACAATAAATTAACCTCTTGGTGGTCACATATTGTATATAAACAACAAATATGCTTTGT
TGAAGGAAAATTTCTTTATTGGAATGTGGTTGTAATCCTTGTTTCAAGTTCTTAAGTTTCGGTTTTTTTTTAAAC
AGGATGCAACTTAACTTTTCTTTGCATCAAGGTATATGCAAAACATTGGTGCCGTGCATCACCAAATGAAAGTT
TGATTTAACGAGGAGGTGCTTTACACTGTACTTTTTGGTGTTTTTTGGAAAAGTTACATTTAGATCTATTCTGA
AGCTGTTTCAATTTTAAACAAATAAAATGTTACAGGTTTCACATGATTTATTCTCAGCTCTAAAAA

1458/6881
FIGURE 1355

MNRFGTRLVGATATSSPPPKARSNENLDKIDMSLDDI IKLNRKEGKKQNFPRLNRRLLQQSGAQQFRMRVRWGIQ
QNSGFGKTSLNHRGRVMPGKRRPNGVITGLAARKTTGIRKGISPMNRPPLSDKNIEQYFPVLKRKANLLRQNEGO
RKPVAVLKRPSQLSRKNNIPANFTRSGNKLNHQKDTRQATFLFRRGLKVQAQLNTEQLLDDVVAKRTRQWRTSTT
NGGILTVSIDNPGAVQCPVTQKPRLTRTAVPSFLTKEQSDVKKVPGVPLQFDINSVGKQTGMTLNERFGILKE
QRATLTYNKGGSRFVTVG

1459/6881
FIGURE 1356

AATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGGAAGTCTCAGGCCACCAAGGGTATGCATA
TACGAAAAGCCACGAAGTATCTGAAAGATGTCACCTTTACAGAAACAGCGTGTACCATTCCGACGTTACAATGATG
GAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCAGAAAGAGTGCTGAATTCT
CTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTGAGATGTGCCGCCGACCTACAGAGCTCATGGTCGGATT
AACCCTACATGAGCTCTCCCTGCCACATTGAGATGATCCTTATGGAAAAGGAACAGATTGTTCTAAACCAGAA
GAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTACGGCACGGGAGTAAATT
CAGCATTAAATAAATGTAATTAAAAGG

1460/6881
FIGURE 1357

MSLYRNSAYHSDVTMVELASVRRPSSGAGHKVGGPKRVLNSLVIEYIQVNKAPKMLRRTYRAHGRINSYMSSPWH
IEMILTEKEQIVPKPEKEVAQKKKISQKKLKKQKL MARK

1461/6881
FIGURE 1358

TGTAGATTAGCTGTGAATATCTTGACTCCTTTAAGGTAATAAGGCTTTTGTTTGTTTTATCTTTCACAGCTAGA
AAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAGATTTATCAGCGTGCATTTGGTGGACAGAGCCTCAA
GTTTGGAAGGGCAGGCAGGCCCATCGGTGCTGCTGTGTGGCTGATCGGACCGGCCACTCAATATTGCACACCTC
ATATGGGAGGTCTCTGAGATATGATAACCAGCTGTTTTGTGGAGTATTTTGCCTTGGATCTCCTGATAGAGAACAG
GGAGTGCCGTGGTGTCAATTGCACTGTGCATAGAGGACGGGTCCATCCATCACATAAGAGCAAAGAACACTGTTGT
TGCCACAGGGTAGG

1462/6881

FIGURE 1359

TTTCCGTGCTACCTGCAGAGGGATCCATACGGCGTTGTTCTGGATTCCCGTCATAACTTAAAGGGAACTTTTAC
AATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCGTCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACCCTGCTCATGTCAG
TGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGTTAC
TGATCCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTAAGTTAACCTACCTACCATTGCTCTGTGTAAACAC
AGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTGAAAAGGCAGTGACCGAGGA
GGAATTTGAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTGCAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATAGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGTGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAACATGGAAAAATGGTTAATGGAAAATAAACATCAGTTTCT

1463/6881
FIGURE 1360

GGGAAACTTTTACAATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG
CAGGAACCCACTTAGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCG
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACC
CTGCTCATGTCAGTGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG
CCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCATCTTAAGTTAACCTACCTA
CCATTGCTCTGTGTAAACACAGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTC
ACTCAGTGGGTTTGATGTGGTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCTCGTGAACACC
CATGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTG

A

1464/6881
FIGURE 1361

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT
GAACCCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAAGGAGTCTACTCTT
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCAAAATTAGTCGCCTTC
GTCGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGCCACTTTGACAGACATTATTGTGGCA
AATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAAGTGTATGAGTTAATAAAAAGACATGAACTAAA
AAAAA

1465/6881
FIGURE 1362

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQGKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLLV
VLRKGRSLTPLPRRISTRERRLSWLS

1466/6881
FIGURE 1363

CCCGCCCGCTAATGTTTTGGCCGCTTCAAGATGGCGGTGCAGGAGTCGGCGGCTCAGTTGTCCATGACCCTGAAG
GTCCAGGAGTACCCGACCCTCAAGGTGCCCTACGAGACGCTGAACAAACGCTTTCGCGCCGCTCAGAAGAACATT
GACCGGGAGACCAGCCACGTCACCATGGTGGTGGCCGAGCTGGAGAAGACGTTGAGCGGCTGCCCCGCCGTGGAC
TCCGTGGTCAGCCTGCTGGACGGCGTGGTGGAGAAGCTCAGCGTCCTCAAGAGGAAGGCGGTGGAATCCATCCAG
GCCGAGGACGAGAGCGCCAAGCTGTGCAAGCGCCGGATCGAGCACCTCAAAGAGCATAGCAGCGACCAGCCCGCG
GCGGCCAGCGTGTGGAAGAGGAAGCGCATGGATCGCATGATGGTGGAGCACCTGCTGCGTTGCGGCTACTACAAC
ACGGCTGTCAAGCTGGCGCGCCAGAGCGGCATCGAGGACCTAGTGAATATTGAGATGTTCTTGACGGCCAAAGAG
GTGGAGGAGTCCCTGGAGAGGCGTGAGACGGCCACCTGCCTGGCCTGGTGCCATGACAACAAGTCCCGGCTCCGG
AAGATGAAGAGCTGCCTGGAGTTCAGCCTCAGAATCCAGGAGTTCATTGAACTCATCCGGCAGAATAAGAGACTG
GACGCTGTGAGACATGCAAGAAAGCACTTCAGCCAAGCAGAAGGGAGCCAGCTGGACGAGGTGCGCCAGGCCATG
GGCATGCTGGCCTTCCCGCCCGACACGCACATCTCCCGTACAAGGACCTTCTGGACCCTGCACGGTGGCGGATG
CTGATCCAGCAGTTCCGGTACGACAACTACCGACTACACCAGCTGGGAAACAATTCTGTGTTACCCCTCACCCTG
CAGGCTGGCCTCTCAGCCATCAAGACACCACAGTGCTACAAGGAGGACGGCAGCTCCAAGAGCCCTGACTGCCCT
GTGTGCAGCCGCTCCCTGAACAAGCTGGCGCAGCCCTGCCCATGGCCCACTGTGCCAACTCCCGCCTGGTCTGC
AAGATTTCTGGCGACGTGATGAACGAGAAACAATCCGCCCATGATGCTGCCCAACGGCTACGTCTACGGCTACAAT
TCTCTGCTTTCTATCCGTCAAGATGATAAAGTCGTGTGCCCGAGAACCAAAGAAGTCTTCCACTTCTCACAAGCC
GAGAAGGTGTACATCATGTAGGCCCCACGTCGTGAAGCGCACGCCTCGGGGACGGGCTGCAGTGGGCGGGGAGGC
CACGCCTTCTCTCTGTCCCACGCTCCAGCCTGCCGCGGCGTTTCTGTTTCTTGCGACCAAAGATCCGTGAGCAAC
GATAAATACTCTTAGGAAGAGAGAAAAATAAGGTTTCATAAGTTTGTACTTGAAAACATTTGGATTGGTAGGATTT
TGTAACACGTCAACCATTTGATGCTTCTGAAAAGTACTTTCAACTTGCGAAGGAACTCTTCTTTAAAGACTGAC
CTAAACACCGAGGGAACTTAAGAACGTTTAAAAATATAGGAGTCCGTGATTTCCCTGTGTTTTAGTTCCTTCC
TTCTGTGAACGATGAGACTTGGAGAACGGGCTGGTCCCTTACCACCTTCCCTGTTGGCCCTGGCCTGGCCGGGGAAG
GTGGCAGCGGCACCGGACTGACCTGCAGTGACCCGCGATGCCGCGCCACGAGGGACACTTATGGCTTCATTCGAG
AGCTGCTGCCAAAACGCCTGGCGCCGCCACCGTCGGGGGCTGGCTTCGAGGACGCCCCGCTGCCTCGCGGGTCGT
GTCCGCGGGACTGTGTTTCGTACGTGCATAGTTTTGATATCACATCGCGGGGCTGTGTTTCGTAGCTGCGTCGTTTC
GATATCACACCCTCTGTGTGCCGCTTACTTCCCTGCTTCGAGAATGTATAACGTGGAAATCCACGGGACCAAATT
TCTGCAGAGGCCTTGCCGGATGGTTCCATAACTGTAGAGTCTAATTGCTATCCATTACAGAAATTAATCGTTTCAG
TTGAAAGAAGTACTGATGACTTTTCAAACAAATGAACCACCGTAGCTGACAGAGAACCGTATCGTAGAGGTTTG
TAGTTAGTGCTTATTTTTGCATGTTGATGTTGACTAGCTAATAAACTGTAAATGTAAACCATGCGAATAAAATGG
TTTTCTATTTCTC

1467/6881
FIGURE 1364

CCCCAGGTCCGGACAGGCCGAGATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCTGCCGCCGCTGCTGCTGGGGGC
CTTCCCGCCGGCCGCCGCCGCCGAGGCCCCCAAAGATGGCGGACAAGGTGGTCCACAGGCAGGTGGCCCGGCT
GGGCCGCACTGTGCGGCTGCAGTGCCAGTGAGGGGGGACCCGCCGCGCTGACCATGTGGACCAAGGATGGCCG
CACCATCCACAGCGGCTGGAGCCGCTTCCGCGTGCTGCCGAGGGGCTGAAGGTGAAGCAGGTGGAGCGGGAGGA
TGCCGGCGTGACGTGTGAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCTGTGCTGGA
TGACATTAGCCCAGGGAAGGAGAGCCTGGGGCCCCGACAGCTCCTCTGGGGGTCAAGAGGACCCCGCCAGCCAGCA
GTGGGCACGACCGCGCTTACACAGCCCTCCAAGATGAGGCGCCGGGTGATCGCACGGCCCGTGGGTAGCTCCGT
GCGGCTCAAGTGCGTGGCCAGCGGGCACCCCTCGGCCCGACATCACGTGGATGAAGGACGACAGGCCTTGACGCG
CCCAGAGGCCGCTGAGCCCAGGAAGAAGTGACACTGAGCCTGAAGAACCTGCGGCCGGAGGACAGCGGCCAA
ATACACCTGCCGCGTGTCGAACCGCGCGGGCGCCATCAACGCCACCTACAAGGTGGATGTGATCCAGCGGACCCG
TTCCAAGCCCGTGCTCACAGGCACGCACCCCGTGAACACGACGGTGGACTTCGGGGGGACCACGTCCCTCCAGTG
CAAGGTGCGCAGCGACGTGAAGCCGGTGATCCAGTGGCTGAAGCGCGTGGAGTACGCGCCGAGGGCCGCCACAAC
TCCACCATCGATGTGGGCGGCCAGAAGTTTGTGGTGCTGCCCCAGGGTGACGTGTGGTTCGCGGCCCGACGGCTCC
TACCTCAATAAGCTGCTCATACCCGTGCCCGCCAGGACGATGCGGGCATGTACATCTGCCTTGCGCCCAACACC
ATGGGCTACAGCTTCCGCAGCGCCTTCCTCACCGTGCTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCCTCC
TCGTCTCGGCCACTAGCCTGCCGTGGCCCGTGGTTCATCGGCATCCCAGCCGGCGCTGTCTTCATCCTGGGCACC
CTGCTCCTGTGGCTTTGCCAGGCCCAGAAGAAGCCGTGCACCCCGCGCCTGCCCTCCCCTGCCTGGGCACCGC
CCGCCGGGGACGGCCCGCGACCGCAGCGGAGACAAGGACCTTCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGT
GTGGGGCTGTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGGCCAGTTGCTGGCCCT
AAGTTGTACCCCAAACCTCTACACAGACATCCACACACACACACACACTCTCACACACACTCACACGTGGAG
GGCAAGGTCCACCAGCACATCCACTATCAGTGCTAGACGGCACCGTATCTGCAGTGGGCACGGGGGGGCCGCCA
GACAGGCAGACTGGGAGGATGGAGGACGGAGCTGCAGACGAAGGCAGGGGACCCATGGCGAGGAGGAATGGCCAG
CACCCAGGCAGTCTGTGTGTGAGGCATAGCCCTGGACACACACACACAGACACACACTGCCTGGATGCATG
TATGCACACACATGCGCGCACACGTGCTCCCTGAAGGCACACGTACGCACACACGCACATGCACAGATATGCCGC
CTGGGCACACAGATAAGCTGCCCAAATGCACGCACACGCACAGAGACATGCCAGAACATAAAGGACATGCTGCC
TGAACATACACACGCACACCCATGCGCAGATGTGCTGCCTGGACACACACACACACAGGATATGCTGTCTGGAC
GCACACACGTGCAGATATGGTATCCGGACACACACGTGCACAGATATGCTGCCTGGACACACAGATAATGCTGCC
TTGACACACACATGCACGGATATTGCCTGGACACACACACACACAGTGTGCACAGATATGCTGTCTGGACACGC
ACACACATGCAGATATGCTGCCTGGACACACACTTCCAGACACACGTGCACAGGCGCAGATATGCTGCCTGGACA
CACGCAGATATGCTGTCTAGTCACACACACACGCAGACATGCTGTCCGGACACACACACGCATGCACAGATATGC
TGTCCGGACACACACACGCACGCAGATATGCTGCCTGGACACACACAGATAATGCTGCCTCAACACTCACACA
CGTGCAGATATTGCCTGGACACACACATGTGCACAGATATGCTGTCTGGACATGCACACACGTGCAGATATGCTG
TCCGGATACACACGCACGCACACATGCAGATATGCTGCCTGGGCACACACTTCCGGACACACATGCACACACAGG
TGCAGATATGCTGCCTGGACACACGCAGACTGACGTGCTTTTGGGAGGGTGTGCCGTGAAGCCTGCAGTACGTGT
GCCGTGAGGCTCATAGTTGATGAGGGACTTTCCCTGCTCCACCGTCACTCCCCAACTCTGCCCGCCTCTGTCCC
CGCCTCAGTCCCCGCCTCCATCCCCGCCTCTGTCCCCTGGCCTTGGCGGCTATTTTTGCCACCTGCCTTGGGTGC
CCAGGAGTCCCCTACTGCTGTGGGCTGGGGTTGGGGGCACAGCAGCCCCAAGCCTGAGAGGCTGGAGCCCATGGC
TAGTGGCTCATCCCCACTGCATTCTCCCCCTGACACAGAGAAGGGCCTTGGTATTTATATTTAAGAAATGAAGA
TAATATTAATAATGATGGAAGGAAGACTGGGTTCAGGGACTGTGGTCTCTCCTGGGGCCCGGACCCGCCTGGT
CTTTCAGCCATGCTGATGACCACACCCCGTCCAGGCCAGACACCACCCCCCACTGCTGCTGGTGGCCCCAG
ATCTCTGTAATTTTATGTAGAGTTTGTAGCTGAAGCCCCGTATATTTAATTTATTTTGTAAACATGAAAGTGCAT
CCTTTCCTCC

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FIGURE 1365

CCAAAGATGTTGACCAGGAAGATCAAGCTGTGGGACATCAACGCCCACATCACCTGCCGCCTGTGCAGCGGGTAC
CTCATCGACGCCACCACGGTGACCGAGTGTCTGCACACCTTCTGCAGGAGCTGCCTGGTGAAGTACCTGGAGGAG
AACAACACCTGCCCCACCTGCAGGATTGTGATCCACCAGAGCCACCCCTGCAGTACATCGGTCATGACAGAACC
ATGCAAGATATTGTTTACAAATTGGTACCAGGCCTCCAAGAAGCGGAAATGAGAAAGCAGAGGGAGTTCTATCAC
AAATTGGGCATGGAGGTGCCGGGAGACATCAAGGGGGAGACCTGCTCTGCAAAACAGCACTTAGATTCCCATCGG
AATGGTGAAACCAAAGCAGACGACAGTTCAAACAAAGAGGCCGCGGAGGAGAAGCCGGAGGAGGACAACGACTAC
CACCGCAGCGACGAGCAGGTGAGCATCTGCCTGGAGTGTAACAGCAGCAAACCTGCGCGGGCTGAAGCGGAAGTGG
ATCCGCTGCTCAGCCCAGGCGACCGTCTTGCACTCTGAAGAAGTTCATCGCCAAAAAACTCAACCTTTCATCCTTT
AACGAGCTGGACATTTTATGCAACGAGGAGATCCTGGGCAAGGACCACACACTCAAGTTCGTGGTTGTCACTAGG
TGGAGATTCAAGAAGGCGCCGCTCCTGCTGCACTACAGACCCAAGATGGACTTGCTGTGAATGGTGCCACACAGC
GCCACAGACTGGGCCCTCGCACCCCTTGGGTGCTCCCGGCCGCCGCGCTTAAGAACATTGCCTCTGGGTGTCATG
TGGACCAGACTTCTGAATAGAGAATATTTATAACTTTTGTATGAGAGAG

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FIGURE 1366

GGGCTTGTCGGGCATCCTGCTCCGTCTGCAGGTTGTGCTTCCGGTGCGGAGGTCATGGACAAAATGTGCCACCG
GTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTACTCCGCCCTGTTCTCGGTGTGGCCTACGGAGCCACGCGC
TACAATTACCTAAAACCTCGGGCAGAAGAGGAGAGGAGGATAGCAGCAGAAGAGAAGAAGCAGGATGAACTG
AAACGGATTGCCAGAGAATTGGCAGAAGATGACAGCATATTAAAGTGAGTGACCCTGCGACCCACTCTTTGGACC
AGCAGCGGATGAATAAAGCTTCCTGTGTTGTGTGAT

1470/6881
FIGURE 1367

MVFPVQVSPLIKLGRYSALFLGVAYGATRYNYLKPRAEERRIAAEEKKKQDELKRIARELAEDDSILK

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FIGURE 1368

GGAGTGGCAGCCGGAGTCTGAACTGTCCTGGGGGACCAAGCAGGAGCTTAAGATGGGCAAGACCTGGGGCCCTGG
GCAGACGCATCAAAGCAGGCAGAAGCAGGCATGGCCAGCAGGAAGACCAAGAAGAAGGAAGGGGGTGCCCTCCGG
GCCCAGAGAGCCTCATCCAATGTCTTCTCCAACCTTTGAGCAGACTCAGATCCAGGAGTTCAAGGAGGCATTACACA
CTCATGGATCAGAACCGAGATGGCTTCATTGACAAGGAGGACCTGAAGGACACCTATGCCTCCCTGGGCAAGACC
AACGTCAAGGACGACGAGCTGGACGCCATGCTCAAAGAGGCCTCGGGGCCCATCAACTTCACCATGTTTCTGAAC
CTGTTTGGGGAGAAGCTGAGCGGTACCGACGCCGAGGAGACCATTCTTAACGCCTTCAAGATGCTGGACCCGGAC
GGGAAAGGGAAAATCAACAAGGAGTACATCAAGCGTCTGCTGATGTCCCAGGCTGACAAGATGACGGCGGAAGAG
GTGGACCAGATGTTCCAGTTCGCCTCCATCGATGTGGCGGGCAACCTGGACTACAAGGCGCTCAGCTACGTGATC
ACCCACGGGGAGGAGAAGGAGGAGTGAGACCCAGCCGGGTCAATAAACCTGGACGCTTGGA

1472/6881
FIGURE 1369

MASRKTKKKKEGGALRAQRASSNVFSNFEQTQIQEFKEAFTLMDQNRDGFIDKEDLKDTYASLGKTNVKDDELDAM
LKEASGPINFMTFLNLFGEKLSGTDAEETILNAFKMLDPDGKGKINKEYIKRLLMSQADKMTAEVDQMFQFASI
DVAGNLDYKALSYVITHGEEKEE

1473/6881
FIGURE 1370

CAGTAGTCCTTGGGGCGGAAGTGGCCCCCGTGGCCCCGGCCGGCTCGGCCCCACCTCCGCCCCGAGGCGGTCCC
GGCCCCACGCGGGAAGGTCTTAAGCCCCGGGCGGCGGGACCGGCGGAGACCCGTGGAGGCCGCCGACGATGG
CGGGGCCGACGGAGGCCGAGACGGGGTTGGCCGAGCCCCGGGCCCTGTGCGCGCAGCGGGGCCACCGCACCTACG
CGCGCCCGCTGGGTGTTTCCTGCTCGCGATCAGCCTGCTCAACTGCTCCAACGCCACGATCAACTGGCTGTCACTGG
TCTACCTCGTGGTATCCACCCATTGCGGTGGCGGCCATCTGGATCCTGGACTCCGTGCGGGCTCCGTGCGGCGC
TCGGTGTCTATACCATCCCTGCTGGCGTCTGCTGCTGCTGCCACCATCTGCCTGTGGGAGAGTGTGCCCCCA
CCCCGCCCTCTGCCGGGGCTGCCAGCTCCACCTCAGAGAAGTTCTGGATGGGCTCAAGCCGCAGCTCATGTGGA
ACAAGGCCTATGTCATCCTGGCTGTGTGCTTGGGGGAATGATCGGGATCTCTGCCAGCTTCTCAGCCCTCCTGG
AGCAGATCCTCTGTGCAAGCGGCCACTCCAGTGGGTTTTCCGGCCTCTGTGGCGCTCTCTTCATCACGTTTGGGA
TCCTGGGGGCACTGGCTCTCGGCCCTATGTGGACCGGACCAAGCACTTCACTGAGGCCACCAAGATTGGCCTGT
GCCTGTTCTCTCTGGCCTGCGTGCCTTTGCCCTGGTGTCCCAGCTGCAGGGACAGACCCTTGGCCTGGCTGCCA
CCTGCTCGCTGCTCGGGCTGTTTGGCTTCTCGGTGGGCCCCCGTGGCCATGGAGTTGGCGGTGAGTGTTCCTTCC
CCGTGGGGGAGGGGGCTGCCACAGGCATGATCTTTGTGCTGGGGCAGGCCGAGGGAATACTCATCATGCTGGCAA
TGACGGCACTGACTGTGCGACGCTCGGAGCTGTCTTGTCCACCTGCCAGCAGGGGGAGGATCCACTTGACTGGA
CAGTGTCTCTGCTGCTGATGGCCGGCCTGTGCACCTTCTTCAGCTGCATCCTGGCGGTCTTCTTCCACACCCCAT
ACCGGCGCCTGCAGGCCGAGTCTGGGGAGCCCCCTCCACCCGTAACGCCGTGGGCGGCGCAGACTCAGGGCCGG
GTGTGGACCGAGGGGGAGCAGGAAGGGCTGGGGTCTGGGGCCAGCACGGCGACTCCGGAGTGCACGGCGAGGG
GGGCCTCGCTAGAGGACCCAGAGGGCCCGGGAGCCCCACCCAGCCTGCCACCGAGCGACTCCCGTGCGCAAG
GCCCAGCAGCCACCGACGCGCCCTCCCGCCCCGGCAGACTCGCAGGCAGGGTCCAAGCGTCCAGGTTTATTGACC
CGGCTGGGTCTCACTCCTCCTTCTCCTCCCCGTGGGTGATCACGTAGCTGAGCGCCTTGTAGTCCAGGTTGCCCC
CCACATCGATGGAGGCGAACTGGAACATCTGGTCCACCTGCGGGCGGGGGCGAAAGGGCTCCTTGCGGGCTCCGG
GAGCGAATTACAAGCGCGCACCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1371

MAGPTEAETGLAEPRALCAQRGHRITYARRWVFLLAISLLNCSNATINWLSLVYLVVSTPFGVAAIWILDSVGLRA
ALGVYTIPAGVVCLLSTICLWESVPPTPPSAGAASSTSEKFLDGLKPQLMWNKAYVILAVCLGGMIGISASFSA
LEQILCASGHSSGFSGLCGALFITFGILGALALGPYVDRTKHFTKIGLCFLSLACVPFALVSQLOGQTLALA
ATCSLLGLFGFSVGPVAMELAVECSFPVGEAATGMIFVLGQAEGILIMLMTALTVRRELSLSTCQGEDPLD
WTVSLLLMAGLCTFFSCILAVFFHTPYRRLQAESGEPPSTRNAVGGADSGPGVDRGGAGRAGVLGPSTATPECTA
RGASLEDPRGPGSPHPACHRATPRAQGAATDAPSRPGRLAGRVQASRFIDPAGSHSSFSSPWVIT

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FIGURE 1372

GGCACGAGGGGTTCGTTTTCCGGAGTGGAGGGCACGCCAGGGTGTCTGAAGCTGAGACCCCGGGCTCGCAGTCGC
CCCATGAATTTTCGAGTTCCGCAACTGACGCTACTGGGCGGGGCTTCATGGCCAGGGCCTCGCTCAGGCCTAAGTT
TCCCCACCTGTGCTCAATGCACAGGTGCGGTGCCGCTCCAGGGCCGGCCGAGAAGAGAGGCCCGCACCCGCACGG
GGACTGCATCTCCCAGAGCGCCCCGCGAGCGGCCGAGCGGGGACTCCATGCCCTAGAGTGCCCCGCGGGCGGC
CGGGCGGCGGGACTCCATGTCCTAGAGTGCCCCGCGGGCGGGCGGGCGGGGACTCCATGTCCTAGAGTGCCCC
GCGGGCGGCGGGCGGGCGGGACTCCATGTCCTAGAGTGCCCCGCGGGCGGGCGGGCGGGGACTCCATGTCCTAGAGTGCCCC
AGGTCCGGGACTGGGCGCTGCGGCCTCGTCCGCGCGCGGGGCGGGGCGGGGCTAGCTCGACAGCTTCCCGGCGGGCTG
CGCGATGGACAGCCCCGAGGTGACCTTCACTCTCGCCTATCTGGTGTTCGCCGTGTGCTTCGTGTTACGCCCAA
CGAGTTCCACGCGGCGGGGCTCACGGTGCAGAACCTGCTGTGCGGGCTGGCTGGGCAGCGAGGACGCCGCCTTTCGT
GCCCTTCCACTTGCGCCGACGGCCGCCACGCTGTTGTGCCACTCGCTGCTGCCGCTCGGCTACTACGTGGGCAT
GTGCCTTGCGGCTTCAGAAAAGCGGCTCCACGCCCTCAGCCAGGCCCCTGAGGCCTGGCGGGCTCTTCCTGCTGCT
GGCCGTGACCTCCCTCCATCGCCTGCATCCTGATCTACTACTGGTCCCGTGACCGGTGGGCCTGCCACCCACT
GGCGCGCACCTTGCCCTCTACGCCCTCCACAGTCTGGCTGGCAGGCTGTTGCCTCCTCTGTCAACACTGAGTT
CCGGCGGATTGACAAGTTTGCCACCGGTGCACCAGGTGCCCGTGTGATTGTGACAGACAGTGGGTGATGAAGGT
AACCACCTACCGAGTGCACGTGGCCCAGCAGCAGGACGTGCACCTGACTGTGACGGAGTCTCGGCAGCATGAGCT
CTCGCCAGACTCGAACTTGCCCGTGCAGTCTCTCACCATCCGTGTGGCCAGCACCAACCTGCTGTGCAGGCCTT
TGACATCTGGAGCTGGAGGCTGCATAGGCTGCATGCAGACACGTGCCAGCGTGAAGCTGGTGAAGACCTGCCAG
GAGGCAGCCACAGGCGAGTGCCAGCAGTGTTACTGCCGCCCATGTGGTGCCCTACCTGCATGGGCAAGTGGTTC
GCCAGCCGCCAGGACCCCTGCGCCCTGACACCTGGCTGGCCAGCCGCGTGCCCTGCCCCAECTGCCGCGCACGC
TTCTGCATCCTGGATGTGTGCACCGTGCGCTGAGTGGGCTGGGGCCTTGAGGTGACTCTGTGTCTCCCCGCAAAG
CCACAGGGCAGGGAAGGGGGTGGCTGGGCCTCCTGGCTGGCAAAGGGCTCTACTTAAAGCACATGATGTAGAGCA
ACTCGCCTCTGCCCTGGGTCTGCAGAAAGGTGAGGACTTTTGGTTAAAAGCAATCCTCATGAAAACACCCACCC
TGCTTGGCAGCCAGGGTACAAGTCTGGGCACCTCCTCTTTGCTCCTCCTGCCCCCTTCTCTGCTGGTGGGGGC
AGATCCTGCACACACAGACACAGCGTCTGCCCCGAGCCATTCCCTGGAGACCCTGGGTCTACCCAGGTGGTCG
TCATCTGGGCCATTTGCCTTACTTCTCTGGAGCATACCCACCCTCAGTTACGTGCCAGACCTGGACCGCATTCTC
CTGCCCTGTCTGGAGCTGGCCCCCTGGCTGCCTGGAGGACCCTGGGTAGGTCTGAGGGTGGGATGGAGAAGAGG
GCACTGCTGTGGTGTGGGAGCAGTCTTGGGGCTTCTGGTGGCTGTGACCAGTTGAGGGGCTGTTCTGGGTGGG
GTGGCAATGGGAGGACAGGTGAGAGCGCCCTCATTGTGGGGCTGCCCTCCGGGTTTCTCATCCTGTCTTGGT
GCCTTTTTTCTGCCCAACAAGTCCAGGGAAGGCCGAGGTCTCAGACTCCTGGGTAGGGGTGGGGGTTTGGATTGAG
GACCAAGTGCCATAGCGACATCCAGAACACAAGCCACCAGGGGTCCAGCCAGGCTACCCACTCCCCTAGGGT
CTCCCAGGCTCAGAAGGGGATGCACGCCCTGTGGTCAAGCCTCTGGTGGGCGTCTTGCCAGTTCTTGATGGT
TCAAGGGGAGGGGGGATGTTGGCCAGGCCCCAGGGCACAGCCCTGACACAGGTGTGGCTACTGGAGGGGCTTCA
TACCTGCGGCCCCAAAGCCCCTGGGCTTGGCTGTTTGGGAGAGGTGATGGACTCCGGGGGCTGACACTTGGG
ATTTGGGAGGCTTCTAGAGCGCTCAGCAGGTGAAGGCAGCAGGGGCCATGGCCGGGAGCCAGGCCTAGCTTTGA
ACTGAGTTTCAAGGGCTGCCAAAGAGGGGCAGTGGGTGGGGTTGTTTTTACTACAAAATAAGTTACTTAGTTTT
ATAAAGACAAACCGATTGTAGCCAAATGACACCATATTTAATAAAATTTAGTCTGAAGTGAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1373

MDSPEVTFTLAYLVFAVCFVFTPNEFHAAGLTVQNLLSGWLGSEDAAFVPFHLRRTAATLLCHSLLPLGYYVGMC
LAASEKRLHALSQAPEAWRLFLLAVTLPSIACILIIYYWSRDRWACHPLARTLALYALPQSGWQAVASSVNTEFR
RIDKFATGAPGARVIVTDTWVMKVTTYRVHVAQQQDVHLTVTESRQHELSPDSNLPVQLLTIRVASTNPAVQAFD
IWSWRPA

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FIGURE 1374

GGCGGCGGTAGCAGCCAGGCTTGGCCCCCGGCGTGGAGCAGACGCGGACCCCTCCTTCCTGGCGGCGGCGGCGCG
GGCTCAGAGCCCGGCAACGGGCGGGCGGGCAGAAATGAGTCTGCAGGTCTTAAACGACAAAAATGTCAGCAATGAA
AAAAATACAGAAAATTGCGACTTCCTGTTTTTCGCCACCAGAAGTTACCGGAAGATCGTCTGTTCTTCGTGTGTCA
CAGAAAGAAAATGTGCCACCCAAGAACCTGGCCAAAGCTATGAAGGTGACTTTTCAGACACCTCTGCGGGATCCA
CAGACGCACAGGATTCTAAGTCCTAGCATGGCCAGCAAACCTTGAGGCTCCTTTCACTCAGGATGACACCCCTTGA
CTGGAAAACCTCACACCCGGTCTGGACACAGAAAGAGAAACCAACAGCTCATCAAGGAAGTGGATGCCAAAACCTACT
CATGGAATTCTACAGAAACCAAGTGGAGGCTGACACCGACCTCCTGGGGGATGCAAGCCAGCCTTTGGGAGTGGC
AGCTCCAGCGAGTCTGGCCAGGTGCCCTGGCTGACCTGGACTGCTCAAGCTCTTCCCAGAGCCAGGAAGTTCT
GAGAACCAAATGGTGTCTCCAGGAAAAGTGTCTGGCAGCCCTGAGCAAGCCGTGGAGGAAAACCTTAGTTCTAT
TCCTTAGACAGAAGAGTGACACCCGCCTCTGAGACCTTAGAAGACCTTGACAGGACAGAGTCCCAGCACAAAGCG
GAGACTCCGCACGGAGCCGAGGAAGAATGCAAAAGCGGAGACTCCGCACGGAGCCGAGGAGGAATGCCGGCACGGT
GGGGTCTGTGCTCCCGCAGCAGTGGCCACTTCGCCTCCTGGTGCAATCCCTAAGGAAGCCTGCGGAGGAGCACCC
CTGCAGGGTCTGCCTGGCGAAGCCCTGGGCTGCCCTGCGGGTGTGGGCACCCCCGTGCCAGCAGATGGCACTCAG
ACCCTTACCTGTGCACACACCTCTGCTCCTGAGAGCACAGCCCCAACCAACCACCTGGTGGCTGGCAGGGCCATG
ACCCTGAGTCCTCAGGAAGAAGTGGCTGCAGGCCAAAATGGCCAGTCTCTGAGGAGCGGACCTGTAAAACCTAGAA
TTTGATGTATCTGATGGCGCCACCAGCAAAAAGGGCACCCCCACCAAGGAGACTGGGAGAGAGGTCCGGCCTCAAG
CCTCCCCTTGAGGAAAGCAGCAGTGAAGGCAGCAAAAAGGCCCGCAGGAGGTGGAGGAGGACGACGGTAGGAGCGGA
GCAGGAGAGGACCCCCCATGCCAGCTTCTCGGGGCTCTTACCACCTCGACTGGGACAAAATGGATGACCCAAAC
TCATCCCGTTCGGAGGTGACACCAAGTCTGGTTGCAGTGAGGCCAGCCCCAGAAAGCCCTGAGACCAGGCTG
GGCCAGCCAGCGGTGAACAGTTGCATGCTGGGCCTGCCACGGAGGAGCCAGGTCCCTGTCTGAGCCAGCAGCTG
CATTCAGCCTCAGCGAGGACACGCCTGTGGTGCACTTGGCAGCCGAGACCCCAACAGCAGAGAGCAAGGAGAGA
GCCTTGAACCTCTGCCAGCACCTCGCTTCCCAAGCTGTCCAGGCAGTGAGCCAGTGCCACCCATCAGCAGGGG
CAGCCTGCCTTGAGAGCTGAAAGAGGAGAGCTTCAGAGACCCCGCTGAGGTTCTAGGCACGGGCGCGGAGGTGGAT
TACCTGGAGCAGTTTGGAACCTCCTCGTTTAAGGAGTCGGCCTTGAGGAAGCAGTCCTTATACCTCAAGTTTCGAC
CCCCTCCTGAGGGACAGTCCTGGTAGACCAGTGCCCGTGGCCACCGAGACCAGCAGCATGCACGGTGCAAATGAG
ACTCCCTCAGGACGTCCGCGGGAAGCCAAGCTTGTGGAGTTCGATTTCTTGGGAGCACTGGACATTCTGTGCCA
GGCCACCCCCAGGTGTTCCCGCGCCTGGGGGCCACCCCTGTCCACCGGACCTATAGTGGACCTGCTCCAGTAC
AGCCAGAAGGACCTGGATGCAGTGGTAAAGGCGACACAGGAGGAGAACCAGGAGCTGAGGAGCAGGTGTGAGGAG
CTCCACGGGAAGAACCTGGAACCTGGGGAAGATCATGGACAGGTTTGAAGAGGTTGTGTACCAGGCCATGGAGGAA
GTTTCAAGCAGAAGGAACCTTCCAAAGCTGAAATCCAGAAAGTTCTAAAAGAAAAAGACCAACTTACCACAGAT
CTGAACTCCATGGAGAAGTCCTTCTCCGACCTCTTCAAGCGTTTTGAGAAACAGAAAGAGGTGATCGAGGGCTAC
CGCAAGAACGAAGAGTCACTGAAGAAGTGGTGGAGGATTACCTGGCAAGGATCACCCAGGAGGGCCAGAGGTAC
CAAGCCCTGAAGGCCACGCGGAGGAGAAGCTGCAGCTGGCAAACGAGGAGATCGCCAGGTCCGGAGCAAGGCC
CAGGCGGAAGCGTTGGCCCTCCAGGCCAGCTGAGGAAGGAGCAGATGCGCATCCAGTCGCTGGAGAAGACAGTG
GAGCAGAAGACTAAAGAGAACGAGGAGCTGACCAGGATCTGCGACGACCTCATCTCCAAGATGGAGAAGATCTGA
CCTCCACGGAGCCGCTGTCCCGCCCCCTGCTCCCGTCTGTCTGTCTGTCTGATTCTCTTAGGTGTCAATGTTT
TTTTTCTGTCTTGTCTTCAACTTTTTTTAAACTAGATTGCTTTGAAAACATGACTCAATAAAAGTTTCCTTTC
AATTTAAAAAAA

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FIGURE 1375

MSLQVLNDKNVSNEKNTENCDFLFSPPEVTGRSSVLRVSQKENVPPKNLAKAMKVTFQTPLRDPQTHRILSPSMA
SKLEAPFTQDDTLGLENSHPVWTQKENQQLIKEVDAKTTHGILQKPVEADTDLLGDASPAFGSGSSSES GPGALA
DLDCSSSSQSPGSSSENQMVSPGKVSGSPEQAVEENLSSYSLDRRVTPASETLEDPCRTESQHKAETPHGAEEEECK
AETPHGAEEECRHGGVCAPAAVATSPPGAIPKEACGGAPLQGLPGEALGCPAGVGTPVPADGTQTLTCAHTSAPE
STAPT NHLVAGRAMT LSPQEEVAAGQMASSSRSGPVKLEFDVSDGATSKRAPPPRRLGERSGLKPFLRKA AVRQQ
KAPQEVEEDDGRSGAGEDPPMPASRGSYHLDWDKMDDPNFIPFGGDTKSGCSEAQPPESPETRLGQPAAEQLHAG
PATEEPGPCLSQQ LHSASAEDTPVVQLAAETPTAESKERALNSASTSLPTSCPGSEPVPTHQOGQPALELKEESF
RDP AEVLGTGA EVDYLEQFGTSSFKESALRKQSLYLKFDPLLRDSPGRPV PVATETSSMHGANETPSGRPREAKL
VEFD FLGALDIPVPGPPPGVPAPGGPPLSTGPIVDLLQYSQKDLD AVVKATQEENRELRSRCEELHGKNLELGKI
MDRFEEVVYQAMEEVQKQKELSKAEIQKVLKEKDQLTTDLNSMEKSFSDLFKRF EKQKEVIEGYRKNEESLKKCV
EDYLARITQEGQRYQALKAHAEEKLQLANEEIAQVRSKAQAEALALQASLRKEQMRIQSLEKTVEQKTKENEELT
RICDDLISKMEKI

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FIGURE 1376A

TGGTCTTGAACCTCCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTAGAACCACTGGTAACTCTTAACTGAGACAAGATTTGCCCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATCTGGACACTTGTGGTGGCAGCAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTGAGGTGTCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCCTTT
CTGTTTCAAGTGTTGTAAAGTGATGAAGCAGGACAGGAAATCCTCGGCAGTGCCAAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGGAGTGTTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAAATGGAGAACCCGGCGCACAGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTCGAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCAAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACTGTTGGTGATTTGGTGTGGTCCAAAGTGTCGGGTTACCTTGGT
GGCCTTGATGGTTTTCTGCAGATCCACTCCTTCACAGCTATACCAAACCTTAAAGGTCAGAAAAAGAGTGCACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTTCAAGGAAATTGAGGGCCAGTGGAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACCAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCCAAGAGAGGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCACGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCTGCTCCTTAACTGAGAATGAGGTCTCGGACAGCCCCGGGAGACGAGC
CCTCGGAGTCCCATACGAAAGTGACAGACGAAACACAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAG
GAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCTT
GCTGCGGAGCTTTCCACCTCGCCTGCCTTGGGCTTTCCCGGAGGGCCAGAAGGGAGGTTACCTGCAGCGAGTGTG
CCTCAGGGATTCACTCATGTTTTCGTGTGTAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTGTG
GAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCTCTGACTGTATTGAGAGCCGAGGTTTCCGCTGCCCCC
TCCACAGCTGTGTGAGCTGCCATGCTTCCAACCTTCAAACCCAAGGCCGTCAAAGGTAAAATGATGCGGTGTG
TCCGCTGCCCCGTTGCCTATCACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCA
TCATCTGCACTGCCACTTCACTGCTCGGAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCG
TGTGCTCCAAAGGGGGGAGCCTTCTGTGCTGTGAGTCTGCCAGCGGCCTTCCACCCTGACTGCCTGAACATCG
AGATGCCTGACGGCAGCTGGTTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTGGG
TGAAACTTGGGAACACAGATGGTGGCCGGCAGAAGTTTGCCATCCCAAAAATGTTCCCAAAATATTCAGAAAA
TGAAGCACGAGATTGGAGAATTCCCTGTGTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCGAG
TGTTCCCGTACATGGAGGGGGACCGGGGCAGCCGCTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACG
CACTGCAAGAAGCTGAAGCTCGTTTTCTGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGC
GCAAGCCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATATTT
CAGAAATCCCTAAGTGCAACTGCAAGCCCACAGATGAGAATCCTTGTGGCTTTGATTCCGAGTGTCTGAACAGGA

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FIGURE 1376B

TGCTGATGTTTGTAGTGCCACCCGCGAGGTGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCC
AGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGG
GAGAATTTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACACG
AGAACGACATCACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAACT
ACTCTCGATTTATGAATCACAGCTGCCAGCCCAACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTG
TGGGCCTGTTGCCGCTCTGTGACATTCTGTCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCA
ATGAAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGACGA
CCCTTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGA
GGCAGTCAGAGGACGAGTGTCTCCGCTGCGGTGATGGCGGGCAGCTGGTGTGTGTGACCGCAAGTTCTGCACCA
AGGCCTACCACCTGTCTGCGCTGGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTG
ACGTGTGTGGCAAACCTTCGACTTCATTTTGCCACCTCTGCCCCAATTCGTTCTGTAAGGAGCACCAGGACGGGA
CAGCCTTCAGCTGCACCCCGGACGGGCGGTCTACTGCTGTGTAGCATGACTTAGGGGCGGCATCGGTGAGAAGCA
CCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAGAG
TCACAGAGGGGCAAAATAGCGCCAGGCGGCCGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCCGCGCCCTGCCTGC
GGGAGAGGGGCGAGCATGAACTGGCCCGGAGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGG
GAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCA
GCTCAGCGTTTCTGGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTT
CCCTCCCACCTCTATTTTTTTAGGTTAAAGTTAATTGGCATATGGAATGTTTAACTCTCCTCTGAAATGTGTAGCG
TAGGCTTTTCCCAAGGGTGCCTAGAACTCGTCTTCGCGTTGCCCCCTTCTGGCTCTCAGCGCCGTGCGCACTC
GGGAGAGGCTGGGTGAGGCCCGTGTGAGGACTGACCCTGGATTCTCGAACTGCCATTGTGATCATTACTCTGC
TCTTTGGAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCATCCTAGT
GAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTTCTCCGTAGTTTTTTCTCCTCATGGAT
TTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTCGAGGCCTGGCCGGGTT
GGGCCTACTTCTCACCTGGGCCTATCTTCTGAACTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATA
TTTTTTTCATTTGGCTTTTCTTTTACCAGTTTCTGATTTTTTATTCTCAATATATTTTTTGCTAAACCTATTTACAA
ATCACCACCGACTGAAGTGTGTGTTTACTGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGGCG
TGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCGGGGAC
CCCAGCACGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTG
TGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGG
TCCTGGGGGTGGAGGCCTGCCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTA
TGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCT
GAGTACTACATATGTTTTAAGACTTGGTTCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGA
GAAGGGGGCACCATGTGTGCCCTTTGCCACGTGTCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACATTC
AGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTTAC
AGAACTCCCCTTGAAAACCTGCTGCTGAGGCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCTTGGTAAAAACT
GCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTGGC
CCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGG
GTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGGCCG
TGGCCTCTGAGGGGCACTCGCCGGTTAAGACAGGGTGGGAGTAGTGCTTTCCAGTTTCAGACTCTAAGTTCTCCCA
AAGTGTCTTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAAGTTGGAAGGTTGTCT
AGGGACAGGCCGGGCAGTGTCCCCACACACACCTTAGAGTCAAGGCCCGAGGGCCCCGTGCTACTTGCCCCAA
AGATCCCTTCCGGCAGGTAAGGGACTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCACCTTGG
GGAGCAGATATTAACCTATTTTTGTGTGGACAGTAGTGAAATCTTGTGATTTTTTAATCGCTTTGATAATACTTC
CAAATTTTATGATTTTTCTGAAGGAAATAATGCAAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACTGTTA
AACTAATGAGCAAGTAACACTAATTTGAATGTCTCTACAATACCGGTTGATAACTCAGTGGAGCCAGGCTTTGG
GGTAGCGGCCCTGAGCTTGACGGGTTTCTCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTGGC
TGGCTCTCGGCCCTGCCAGCTTTGTTCTGAGGACGTGGTGACTTCTGAACATCAGCTTCAATCCTCCATCATT
AATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCCTTGGCATCCGAAACCAGCATCTGCACCTAA

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FIGURE 1376C

ACCCATACCCACCCGTTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAAATGTGGTCACCTGTGGGGG
AAACTCTTCAGGCACCTGAAGTGAGAACCAGCTGTCCGTCCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCC
ATGGCTGGCTGGGTCCCCTTCGCAGTGTTTGTCTGTCTTGACATCTAAACCCCGCGTGTGCAGTGCCCATCTTC
CAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAAAT
ATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTAC
AGCCTCACCATACCCTGTTGAGGTGTGAAATGCCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGGTG
TCTAAACTTCATACAATGTAAGGTCAGATTCCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAGAC
TTAAAACTTGAAATTCACTTTTTGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAA
AATAGCATTTAAAATGGAAAGCTGTGTTTGGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAGGC
TTTTTCTTAA

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FIGURE 1377

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFIP
ADKLDLTSRVFNGEPGAHDALRFESQEMKGIGTPPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLKYNVGD
VWSKVSQYPWWPCMVADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTTSMPR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQ RARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEADTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRATAASSALGFSKSSSPASLTENEVS DSPGDEPSESPYESADETQTEVSVSSKKSERGVTAKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCSECASGIHSCFVCKESKTDVKRCVVTQCGKFYHEACVKKYPLT
VFESRGFRCLHSCV SCHASNPSNPRPSKGKMMRCVRCPVAYHSGDACLAAGCSVIASNSI ICTAHFTARKGKRH
HAHVNVSWCFVCSKGGSLCCESC PAAFHPDCLNIEMPDGSWFCNDCRAGKKLHFQDI IWVKLGNYRWWPAEVCH
PKNVPPNIQKMKHEIGFPPVFFFGSKDYWTHQARVFPYMEGDRGSRYQGVRGIGRVFKNALQEAEARFREIKLQ
REARETQESERKPPPYKHIKVNKPYGKVQIYTADISEIPKCNCKPTDENPCGFDSECLNRMLMFECHPQVCPAGE
FCQNQCFTKRQYPETKIIKTDGKGWGLVAKRDIRKGEFVNEYVGELIDEEECMARIKHAHENDITHFYMLTIDKD
RIIDAGPKGNYSR FMNHSCQPN CETLKWTVNGDTRVGLFAVCDIPAGTELTFNYNLDCLGNEKTVCRCGASNC SG
FLGDRPKTSTTLSSEEKGKKTKKKTRRRRAKGEGRQSEDECFRCG DGGQLVLC DRKFCTKAYHLSCLGLGKRPF
GKWECPWHHC DVC GKPSTSFCHLCPNSFCKEHQDGTAFSCTPDGRSYCCEHDLGAASVRSTKTEKPPPEPGKPKG
KRRRRRGWRRVTEGK

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FIGURE 1378A

TGGTCTTGAACTCCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTCTAGAACCCTGGTAACCTCTTAAGTGAAGACAAGATTTTCGCCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTCAGGTGTCCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTCTAAGAACGGAAGCATCTGGGCTGGATCGAATTTAGCATCAAGCAGAGTCCCCTTT
CTGTTTCAAGTGTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGCGAGTGTCTGTGTTTCTCAGCAAAGCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCC
TGTTTAAATGGAGAACC CGGCGCACACGATGCCAAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGCTCAGTCAGAAGAAAATGGACAAAAAC
CAGAAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTGGAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTTGGTGTGGTCCAAAGTGTCGGGTTACCCCTTGGT
GGCCTTGTCATGGTTTTCTGCAGATCCACTCCTTCACAGCTATACCAAATTAAGGTGAGAAAAGAGTGACAGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTCAAGGAAATTGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGACCAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCCGACATAGGGAAGAGTACTCCTCAAAAGACGGCAGAGGCTGACCCCGAAGAGGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTACAGTGGAGTCTGCTGAGTGAGAAGCAGAGACGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACCACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCTGCTCCTTAAGTGAAGATGAGGTCTCGGACAGCCCGGGAGACGAGC
CCTCGGAGTCCCATACGAAAGTGCAGACGAAACACAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAG
GAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCGGGCAGCCTCCTGCTCTGTGAAGGACCCT
GCTGCGGAGCTTTCCACCTCGCCTGCCTTGGGCTTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTGTG
CCTCAGGTGTGCCCCGGCACAGTCTGGGGTCTGTGAGGATGATGAGAGGACACCTGCACAGCCGTGGCCCTTCTCT
GCCTACTCACCGGGCCCAAGGAGTCTCCTATCTCACGTGAGAACACTTCTGGGTGAGGAAGACACCTGGAGAGT
CTCCAGGCCATGGCAGCCCCACAGCAGCACCTCACTTATGGGAGTGTCTGTCTGCCTGCCAGAAATGATAAGTG
ACTGCTCCACCACTGGCCAGCTGCTCTCAAGGAGGAAAGGCCCTCTTTTCAAGGAGCCCTTCTTTCAAGCTTCT
TGCCAGTTAGACTGGGCCTCCCCAGCCAGGCTGCCTAGTAAGATTCTCCTGTATTTTCAAGGTGAAGCTGGAGCTCA
GATCGCAGCAAGGTAATCCTTGATGGCTGGATCTTTTTGCTGGAGAATGCTTGGACTAGTGAGCAAGGTTGGAAA
CAGGGCCAGGTGCTTTAGCAGCGTGGCTGCCTCTGAAGAGGAGTTGCTTGATTTTAGTGGCTCAGAAGTGAATTT
TAATTTCTGTTCTTTGCACCTCTCTCTCCACCCCTTCTTTAACTTTTTGTTAGGGATTCACTCATGTTTCGTGTG
TAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACCTCAGTGTGGAAATTTTACCATGAGGCTTGTGTGAA
AAAATACCCTCTGACTGTATTTGAGAGCCGAGGTTCCGCTGCCCCCTCCACAGCTGTGTGAGCTGCCATGCTTC
CAACCCTTCAAACCAAGGCCGTCAAAAGGTAATGATGCGGTGTGTCCGCTGCCCCGTTGCCTATCACAGCGG
GGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCTCCAACAGCATCATCTGCACTGCCACTTCACTGCTCG
GAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCGTGTGCTCCAAAGGGGGGAGCCTTCTGTG

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FIGURE 1378B

CTGTGAGTCCTGCCCAGCGGCCTTCCACCCTGACTGCCTGAACATCGAGATGCCTGACGGCAGCTGGTTCTGCAA
TGACTGCAGGGCTGGGAAGAAGCTGCACCTCCAGGATATCATTGTTGGGTGAAACTTGGGAACACAGATGGTGGCC
GGCAGAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTCAGAAAATGAAGCACGAGATTGGAGAATTCCCTGT
GTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGGAGTGTTCCCGTACATGGAGGGGGACCGGGG
CAGCCGCTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACGCACTGCAAGAAGCTGAAGCTCGTTTTCG
TGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGCGCAAGCCCCCACCATAACAAGCACATCAA
GGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATATTTAGAAATCCCTAAGTGCAACTGCAAGCC
CACAGATGAGAATCCTTGTGGCTTTGATTTCGGAGTGTCTGAACAGGATGCTGATGTTTGAGTGCCACCCGCAGGT
GTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTACCAAGCGCCAGTACCCAGAGACCAAGATCATCAAGAC
AGATGGCAAAGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGGGAGAATTTGTTAACGAGTACGTTGGGGA
GCTGATCGACGAGGAGGAGTGATGGCGAGAATCAAGCACGCACACGAGAACGACATCACCCACTTCTACATGCT
CACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAAACTACTCTCGATTTATGAATCACAGCTGCCA
GCCCCACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTGTGGGCCTGTTTGCCGTCTGTGACATTCC
TGCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCAATGAAAAACGGTCTGCCGGTGTGGAGC
CTCCAATTGCAGTGGATTCCCTCGGGGATAGACCAAAGACCTCGACGACCCTTTTCATCAGAGGAAAAGGGCAAAAA
GACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGAGGCGAGTCAGAGGACGAGTGCTTCCGCTG
CGGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCACCAAGGCCTACCACCTGTCTGCCTGGGCCT
TGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTGACGTGTGTGGCAAACCTTCGACTTCATT
TTGCCACCTCTGCCCAATTTCGTTCTGTAAAGGAGCACCAGGACGGGACAGCCTTCAGCTGCACCCCGGACGGGCG
GTCCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAGCACCAGACTGAGAAGCCCCCCCCAGAGCC
AGGGAAGCCGAAGGGGAAGAGGCGGCGGAGGGGCTGGCGGAGAGTCACAGAGGGCAAATAGCGCCAGGCGGC
CGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCCCGCCCTGCCTGCGGGAGAGGGCGAGCATGAAGTGGCCCGG
AGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGGGAGGGAGCGCCTCCCCACCACTGAGCCA
TCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCAGCTCAGCGTTCTTGACAAACAGCCTCA
CTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGTTCCCTCCCACTCTATTTTTTTTAGGTTAAA
GTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAGCGTAGGCTTTTCCCAAGGGTCGCTAGAAAC
TCGTCTTCGCGTTGCCCCCTTTCTGGCTCTCAGCGCCGTGCCCACTCGGGAGAGGCTGGGTGAGGCCCGTGTGAG
GACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCTGCTCTTTGGAAATGGCTGTATCATTTTTTT
GTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCCATCCTAGTGAGAAGCTGGCCCTGCAGGTGGTGGCAG
CAATGGTGTGTGAAGATTTCTCCCGTAGTTTTTTCTCCTCATGGATTTGAATGAAATGCCAATAACACGTCCAC
TTTCAACGTGTAGTTTACGCGGAGCACTTTTCAGAGCCTGGCCGGTTGGGCCTACTTCTCACCTGGGCCTATCTT
CTGAACCTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATATTTTTTTTCAATTTGGCTTTTCTTTACCAG
TTTCTGATTTTTTATTCTCAATATATTTTTGCTAAACCTATTTTACAAATCACCACCGACTGAAGTGTGTGTTTAC
TGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGGCGTGAGACCGCAGTCTGCTTAGAGCACAGG
AAGTGACAACCTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGACCCCAGCACGTGGGTCTAAAGAGAGACGG
AGTCTAGCTCTCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTGTGGGTCTGGTGATGGAAGATGCAGTCTC
TGCTGATCATATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGGTCTGGGGGTGGAGGCCTGCCTGGCAGG
TGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTATGACACCCACTCTCCTGTGAGATTTTAC
TTTAGTTTTTAAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCTGAGTACTACATATGTTTTAAGACTTGGT
TCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGAGAAGGGGGCACCATGTGTGCCCTTTGCC
ACGTGTCCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACATTACAGCAGCAGGTGCTTTTTTTATGGCCTTTT
CTTAAATAACCTAAGGGGGACACATCCATCTTGACAGAGAAGTTTACAGAAGTCCCCTTGAAACTGCTGCTGAG
GCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCCTTGGTAAAAACTGCAGTGTCTTTGGACCTGAGAGTGGCTA
CTCCGTGGTTTTTGTGACCTGTAAGCGTGGGGTTCAGGGGTGTGTGGCCCTGCAGGGTCCCACGCCTCCCTGAGCA
CTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGGGTCCCAGCAAAGTTAACTACACAGAGG
ACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGCCGTGGCCTCTGAGGGGCACTCGCCGGTTAA
GACAGGGTGGGAGTAGTGCTTTCCAGTTCAGACTCTAATTTCTCCCAAAGTGTCTTAAGAAAATACTGGATCGGC
TCATAGATTTATGCTCCTTATGATGCCCTAATTTGGAAGGTTGTTCTAGGGACAGGCCGGGCAGTGTCACAC

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FIGURE 1378C

ACACCTTAGAGTCGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCAAAAGATCCCTTCCGGCAGGTAAGGGACTAC
CAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCACTTTGGGGAGCAGATATTAAGTTATTTTTGTGTT
GGACAGTAGTGAAATCTTGTGATTTTTAATCGCTTTGATAATACTTCCAAATTTTATGATTTTTCTGAAGGAAAT
AATGCAAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACTGTTAAACTAATGAGCAAGTAACACTAACTTTG
AATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTTGGGGTAGCGGCCCTGAGCTTGCAGGGTTTC
TCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTGGCTGGCTCTCGGCCCTGCCAGCTTTGTTC
TGAGGACGTGGTGACTTCCTGAACATCAGCTTCAATCCTCCATCATTAAATGTGAAGCAAAACACAAAAACCGCCC
CAATCCCTCAGGATTCCTTGGCATCCGAAACCAGCATCTGCACCTAAACCCATACCCACCCGTGTGCGCCACAG
GGGATGTGTCCGAATGGGCAGCTTAAATGTGGTCACCTGTGGGGGAACTCTTCAGGCACCTGAAGTGAGAAC
CCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCCATGGCTGGCTGGGTCCCCTTCGCAGTGT
TTGTCTGTCTTGACATCTAAACCCCGGCGTGTGCAGTGCCCATCTTCCAGGACTACCTTATTTTCCAGAATTAAA
CCTGTTTTATAATTCAAGTTAATGCAAATGACTGTGAGTTGCCAAATATCTTGATCCTGTGAGTGTAGTTGATGA
CTGTTTGTAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTACAGCCTCACCATACCCGTGTGAGGTGTGA
AATGCCCCGTGAGAAATTAAATACAACTTAAATGTGCCTATTGGTGTCTAAACTTCATACAATGTAAGGTCAGA
TTCCTTTTAGGAATACTGGGTGCTGTACACAGGTTTGATAGTTAGACTTAAAACTTGAAATTCACTTTTTGGGG
GGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAAAATAGCATTTAAATGGAAAGCTGTGTT
TGGAATTTGTGATGAGTATTTTTGTATTAAAAACATTTTAAAGGCTTTTTTCTTAA

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FIGURE 1379

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNHGDALPFIP
ADKLDLTSRVFNGEPGAHDAKLRFESQEMKGIGTPPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVVDL
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPISGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEAAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTTVSMPR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEDTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRATAASSALGFSSSSPSASLTENEVSDSPGDEPSESPIYESADETQTEVSVSSKKSERGVTAKKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCECASGVARHSLGSVRMMRGHLHSRGPSCLLTGPKESPISRQN
TSWVRKTPGESPRPWQPHSSTSLMGVSVCLPRMISDCSTTGQLSRRKGLFS

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FIGURE 1380A

TGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTAGAACCACTGGTAACTCTTAAGTGAACAAGATTTGCGCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTCTGGACACTTGTGGTGGCAGCAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTGAGGTGTCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTCTAAGAACGGAAGCATCTGGGCTGGATCGAATTTAGCATCAAGCAGAGTCCCCCTT
CTGTTTCAAGTGTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGGAGTGTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAGTTTAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAAATGGAGAACCCGGCGCACAGATGCCAACTGCGTTTTGAGTCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGTCTGTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTGCAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCCTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTGGTGTGGTCCAAAGTGTGCGGTTACCCCTGGT
GGCCTTGCATGGTTTTCTGCAGATCCACTCCTTCACAGCTATACCAAACCTTAAAGGTGAGAAAAGAGTGCACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTAGGGGAAATTGAGGGCCCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCATTCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCCGACATAGGGAAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCCAAGAGGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCAGCTACAACACCAAGTTTGCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACCACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCCTTCTGCATCCTTAAGTGAAGTGAAGTCTTTGTGGGAGCCACACCAGTCA
AGTTGGATTTGAACCCAGCTGCTCTGTACTGCACCTAGAAATGATGTAATATTCCAGGATGCTGCTGCAGGTGGCG
TATCATCGTACACACTCAGTGACATTTCTATACAATCATTTTATGGAAGATGTGTGATAATCTGTTTTTACTGG
TATTAATAAACACATACAATGAAGAAAACAGATAACAAATTTTAAAGACCAAGGTCTCGGACAGCCCGGGAGACGA
GCCCTCGGAGTCCCATACGAAAGTGCAGACGAAACACAACTGAAGTATCTGTCTCATCCAAAAGTCTGAGCG
AGGAGTGAAGTCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACC
CTGCTGCGGAGCTTTCCACCTCGCTGCCTTGGGCTTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTG
TGCTCAGGATTCACCTCATGTTTCTGTGTGTAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTG
TGGAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCCTCTGACTGTATTGAGAGCCGAGGTTTCCGCTGCCC
CCTCCACAGCTGTGTGAGCTGCCATGCTTCCAACCCTTCAAACCCAAAGCCGTCAAAGGTAAATGATGCGGTG
TGTCCGCTGCCCCGTTGCCTATCACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAG
CATCATCTGCACTGCCCACTTCACTGCTCGGAAGGGGAAGCGACACCACGCCCACGTCAACGTGAGCTGGTGTCT
CGTGTGCTCCAAAGGGGGGAGCCTTCTGTGCTGTGAGTCTGCCCAGCGGCTTCCACCCTGACTGCCTGAACAT
CGAGATGCCTGACGGCAGCTGGTTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTG
GGTGAACTTGGGAACTACAGATGGTGGCCGGCAGAAGTTTGGCATCCCAAAAATGTTCCCCCAAATATTAGAA
AATGAAGCAGGAGATTGGAGAATTCCCTGTGTTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCG
AGTGTTCCTGTACATGGAGGGGGACCGGGGCAGCCGCTACCAGGGGTGAGAGGGATCGGAAGAGTCTTCAAAAA

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FIGURE 1380B

CGCACTGCAAGAAGCTGAAGCTCGTTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGA
GCGCAAGCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATAT
TTCAGAAATCCCTAAGTGCAACTGCAAGCCACAGATGAGAATCCTTGTGGCTTTGATTCCGGAGTGTCTGAACAG
GATGCTGATGTTTGTAGTGCCACCCGAGGTGTGTCCCGGGGCGAGTTCTGCCAGAACCAGTGCTTACCAAGCG
CCAGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGGACATCAGAAA
GGGAGAATTTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACA
CGAGAACGACATCACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAAA
CTACTCTCGATTTATGAATCACAGCTGCCAGCCCAACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCG
TGTGGGCCTGTTTGCCGTCTGTGACATTCTGCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGG
CAATGAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGAC
GACCCTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAAGGGGAAGGGAA
GAGGCAGTCAGAGGACGAGTGCTTCCGCTGCCGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCAC
CAAGGCCTACCACCTGTCTGCCCTGGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCCTTGGCATCATTG
TGACGTGTGTGGCAAACCTTCGACTTCATTTTGCCACCTCTGCCCCAATTCGTTCTGTAAGGAGCACCAGGACGG
GACAGCCTTCAGCTGCACCCCGGACGGGCGGTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAG
CACCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAG
AGTCACAGAGGGCAAATAGCGCCAGGCGGCCGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCCGCCCTGCCT
GCGGGAGAGGGCGAGCATGAACCTGGCCCGGAGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTC
GGGAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCC
CAGCTCAGCGTTCTTGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGG
TTCCCTCCCCTCTATTTTTTTAGCTTAAAGTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAG
CGTAGGCTTTTCCCAAGGGTCGCTAGAACTCGTCTTCGCGTTGCCCTTTCTGGCTCTCAGCGCCGTCGCCAC
TCGGGAGAGGCTGGGTGAGGCCCCGTGTGAGGACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCT
GCTCTTTGAAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCCATCCTA
GTGAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTTCTCCCGTAGTTTTTTCTCCTCATGG
ATTTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTGAGGCCTGGCCGG
TTGGGCCTACTTCTCACCTGGGCCTATCTTCTGAACCTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTA
TATTTTTTTTCAATTTGGCTTTTCTTTACCAGTTTCTGATTTTTTATTCTCAATATATTTTTGCTAAACCTATTTAC
AAATCACCACCGACTGAAGTGTGTGTTTACTGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGG
CGTGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGG
ACCCACAGCAGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTC
TGTGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGC
GGTCTTGGGGGTGGAGGCCTGCCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGG
TATGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTAT
CTGAGTACTACATATGTTTTAAGACTTGTTCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCCCT
GAGAAGGGGGCACCATGTGTGCCTTTGCCACGTGCTTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACAT
TCAGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTT
ACAGAACTCCCCTTGAAACTGCTGCTGAGGCTCCTGTTAAATTTTTCTGTGGCATCTTTTTATGCCTTGGTAAAAA
CTGCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTG
GCCCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCA
GGGTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGC
CGTGGCCTCTGAGGGGCACTCGCCGGTTAAGACAGGGTGGGAGTAGTGCTTCCAGTTCAGACTCTAACTTCTCC
CAAAGTGTCTTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAACTTGAAGGTTGTT
CTAGGGACAGGCCGGGAGTGTCCCCACACACACCTTAGAGTCGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCA
AAAGATCCCTTCCGGCAGGTAAGGGACTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCATTT
GGGGAGCAGATATTAACCTATTTTTTGTGTTGGACAGTAGTGAAATCTTGTGATTTTTAATCGCTTTGATAATACT
TCCAAATTTTATGATTTTTTCTGAAGGAAATAATGCAAACATTTAAATATGTTTCTCCCCCTTCCAAAACTGT
TAAACTAATGAGCAAGTAACACTAATTTGAATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTT

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FIGURE 1380C

GGGGTAGCGGCCCTGAGCTTGCAGGGTTTCTCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTG
GCTGGCTCTCGGCCCTGCCCAGCTTTGTTCTGAGGACGTGGTGACTTCCTGAACATCAGCTTCAATCCTCCATCA
TTAATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCT
AAACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAAAATGTGGTCACCTGTGGG
GGAAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGT
CCATGGCTGGCTGGGTCCCCTTCGCAGTGTTTGTCTGTCTTGACATCTAAACCCCGCGTGTGCAGTGCCCATCT
TCCAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAAATGACTGTCAGTTGCCAA
ATATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAATGCTGTGTCCACGGGGTGTG
ACAGCCTCACCATAACCTGTTGAGGTGTGAAATGCCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGG
TGTCTAAACTTCATACAATGTAAGGTGAGATTCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAG
ACTTAAAACTTGAAATTCATTTTTGGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGG
AAAATAGCATTTAAATGGAAAGCTGTGTTTGGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAG
GCTTTTTTCTTAA

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FIGURE 1381

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFIP
ADKLDLTSRVFNGEPGAHDALRFESQEMKGIGTPNNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVGD
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPPVQAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKT TVSMR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEADTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRSTAASSALGFSKSSSPSASLTENELLWEPTPVKLDLNPAAALYCT

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FIGURE 1382

TAGCGAGGGACGCGTAGGTGTCTTCATAAGATGCCGGGGCAGCGGCGCGCTTTCCCCAAGATGGCGTCCATG
CGGGAGAGCGACACGGGCTGTGGCTGCACAACAAGCTGGGGGCCACGGACGAGCTGTGGGCGCCGCCAGCATC
GCGTCCCTGCTCACGGCCGCGGTTCATCGACAACATCCGTCTCTGCTTCCATGGCCTCTCGTCGGCAGTGAAGCTC
AAGTTGCTACTCGGGACGCTGCACCTCCCGCGCCGACGGTGGACGAGATGAAGGGCGCCCTAATGGAGATCATC
CAGCTCGCCAGCCTCGACTCGGACCCCTGGGTGCTCATGGTCGCCGACATCTTGAAGTCCTTTCCGGACACAGGC
TCGCTTAACCTGGAGCTGGAGGAGCAGAATCCCAACGTTTCAGGATATTTTGGGAGAACTTAGAGAAAAGGTGGGT
GAGTGTGAAGCGTCTGCCATGCTGCCACTGGAGTGCCAGTACTTGAACAAAAACGCCCTGACGACCCTCGCGGGA
CCCCTCACTCCCCCGGTGAAGCATTTTCAGTTAAAGCGGAAACCCAAGAGCGCCACGCTGCGGGCGGAGCTGCTG
CAGAAGTCCACGGAGACCGCCAGCAGTTGAAGCGGAGCGCCGGGGTGCCCTTCCACGCCAAGGGCCGGGGGCTG
CTGCGGAAGATGGACACCACCACCCACTCAAAGGCATCCCGAAGCAGGCGCCCTTCAAGCCCCACGGCGCCC
AGCGTCTTCAGCCCCACAGGGAACCGGACCCCCATCCCGCCTTCCAGGACGCTGCTGCGGAAGGAACGAGGTGTG
AAGCTGCTGGACATCTCTGAGCTGGATATGGTTGGCGCTGGCCGAGAGGCGAAGCGGAGAAGGAAGACTCTCGAT
GCGGAGGTGGTGGAGAAGCCGGCCAAGGAGGAAACGGTGGTGGAGAACGCCACCCCGGACTACGCAGCCGGCCTG
GTGTCCACGCAGAACTTGGGTCCCTGAACAATGAGCCTGCGCTGCCCTCCACGAGCTACCTTCCCTCCACGCCC
AGCGTGGTTCCCGCCTCCTCCTACATCCCCAGCTCCGAGACGCCCCCAGCCCCATCTTCCCGGGAAGCCAGCCGC
CCACCAGAGGAGCCAGCGCCCCGAGCCCCACGTTGCCAGCGCAGTTCAAGCAGCGGGCGCCCATGTACAACAGC
GGCCTGAGCCCTGCCACACCCACGCCTGCGGCGCCCACTCGCCTCTGACACCCACCACACCTCCGGCTGTGCGC
CCTACCACTCAGACACCCCCGGTTGCCATGGTGGCCCCGAGACCCAGGCCCTGCTCAGCAGCAGCCTAAGAAG
AACCTGTCCCTCAGAGAGAGCAGATGTTGCTGCCCAGGAGATGTTCAAGACGGCCAACAAAGTCACGCGGCCC
GAGAAGGCCCTCATCCTGGGCTTCATGGCCGGCTCCCCGAGAGAACCCGTGCCAGGAGCAGGGGGACGTGATCCAG
ATCAAGCTGAGCGAGCACACGGAGGACCTGCCCCAAGCGGACGGCCAGGGTAGCACAACCATGCTGGTGGACACA
GTGTTTGAGATGAACATATGCCACGGGCCAGTGGACGCGCTTCAAGAAGTACAAGCCCATGACCAATGTGTCCTAG

AACCACCTGCCTCACAGCTGGCCGTCACCTTGTGGGGTCCACGGGACGATGGCTTTGCCAGCTTAAAGTAACCGG
ATGGCGGACACCTGGCCCCGAGGTCCCCCGGCCGCCGCTGCTGCTGACCCAGCCTGTTTTAAGTTCTGGATG
CATTTCTCTGGGGTATTTGGGGCTTATTTTTAAATTTTAAATATGGGTTCTTTTTTGTGTGATTTAAAGACACTT
TTTGGACTCAACGTTACATTTTTGAATGTAGTAAGTAAATTAACCAAAAAAGTTACAACCTCCTAATTTTAGTGA
CAGCTCTGCCTGTTTGTAGACTCTTACTTTTTAAATCTTTTCTATTTTCCCTCGCTGGGGCAGTGCCCTCCTA
CCCCCAGGGTTGAGGGGACCAAGGTGGCACGGTGGTACTGGGGGTGCGGCAGGGACACCCGACCACACCAGAGCG
TGGGAGACGGTGGGCCTTGTCCCTGCCTGTGCCTGCCTGGGAGTTTTGTATTCTATCTTTGTATAGTTGTGGAC
ATTTAAGACAGTCTTTGGGTACCTATTTTCATTGTAAACTATCTGAACCATTAAGTCGAGCTTTTCTAAAGAA
AAAAAAAAAAAA

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FIGURE 1383

MASMRESDTGLWLHNKLGATDELWAPPSIASLLTAAVIDNIRLCFHGLSSAVKLKLLLGTLHLPRRTVDEMKGAL
MEIIQLASLDSDPWVLMVADILKSFPDTGSLNLELEEQNPNVQDILGELREKVGECEASAMLPLECQYLNKNALT
TLAGPLTPPVKHFQLKRKPKSATLRAELLQKSTETAQQLKRSAGVPFHAKGRGLLRKMDTTTFLKGIPKQAPFRS
PTAPSVFSPTGNRTPIPPSRTLLRKERGVKLLDISELDMVGAGREAKRRRKTLDAEVVVEKPAKEETVVENATPDY
AAGLVSTQKLGSNNPALPSTSYLPSTPSVVPASSYIPSETPPAPSSREASRPPEEPSAPSPTLPAQFKQRAP
MYNSGLSPATPTPAAPTSP LPTPTPPAVAPTTQTPPVAMVAPQTQAPAQQQPKKNLSLTREQMFAAQEMFKTANK
VTRPEKALILGFMAGSRENPCQEQQDVIIQIKLSEHTEDLPKADGQGSTTMLVDTVFEMNYATGQWTRFKKYPMT
NVS

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FIGURE 1384A

TCCCAGCCTGAAACCAACACATTTTCTAATAAGTTATTTAGACAGAATAGCACTCTGCATGACTTTAATTCTTGG
GACAAAACGGTAGTTTGTACCCTAAGACACAGTTTCTGGCCCAGTGTGATGGGGGTGGGTGGCCGGGTGGGTGGA
GCGTTTTGTGTTGGAAACCTGGAGGGAAACCCTGATTGGATGTCAATTCCTGCCATGGAGCACGCCTCCCAGCC
CTGGCCTGCAGGGTGGGCAGGGTGGGGGGCAAGGGAGTCCGCAGCCTCCGGGAGGAGGGGCAGGGCGCTGCCTTG
GGCTGGGTGGGAAGAGGGGTGGCCGCCTCGGCTTCCGCTGGCCATGCTCCTGGTCTCTCCTTCCCTGAGGTCACAG
GCAGGGGCTGCCCTGGACGGGGGGCGGGGGGGTGGCCTGGAAGGGGAGACAGAGGTGGAGGGTGGCACAGGGCTG
CACATTCAGCTTAGAAGTGGACCTGGCTTTGGTGGCAGGAGAAGAATAAACACTTGGCCAGACCCCTTTGTGTGG
GGGAATTGGGGAGGGGTCTGGCAGGCAGGGTGGGCCACGGAAGTGGGTCCCAGGCATCAAGGCCACGTGCAGGG
CCATGGAGGGATGCTTCTACGAGGGCGCTTCAGAAGCGAGCGAAGGGACAGAGAAGCCCTGCGTCCAAGGGCCTT
TTGTCTGTAGCAATTGAGGTGTGCAGAGCACTGTACAGACCCCACTCCCCTGTACATTCCTCCCTGGAGGTGC
CCGGTCCCCGCTTGGGGATGGGAGTTTTGTAGACTGTACAGAAATCGGCACCCTATTTTCTTGCAGCTCAGATTT
TGTTAATCTGGAATATACAGACAGACGTAAAGTGTTTTAGCAAAATGGAACAAACAGTTGTGCCTTTTTCTCTCT
TTTGGTTTGGTTTGGGTTTGGCCTGGGGCTGGTCCCAGTTGGTGCAGGGGCATGCTGGGGGCAGGAGGGGCAGGGC
GGGCCAGGTGGAGTCAGGTCTTGGGGGTGTCAITGTCGGGGTGTCTGCCAGCGTCCCTTGGTCTGTGCCTTTGGAG
CCTCGGGCTCCTGGGGTGCAGGGTGTCTGGGGGTGGCTGTTGGAGCCCACCGACGCCAGGGCAGGGCCTGGAGGC
CCAGGGACTGCCAGTGTCTCCTTGATATTGATCCTAGCAGATCCCCCTCCTGGGGGTCTGTAGAGTCTGGGCAG
TGTGGCCTTCTCTCATTCCTGGTGGCATCTGCGCCCGTGAAGTACCTCTTCTTGGCTGCAGTGCCTGTGGGTGG
TGAGACGCTTGGCCTTTTTTGTGCTGCCAGGACTTGGTAGAGATGGCAGGAAGGGTGTGCGGGGTGGTTGTGTG
CAGAACCCTGCCGCCCCCTGAGGTGAGCAGAGGCAGTGGTGTGCTGCCAGGCTGGGGCGGAGCTGCCCGGAACCCT
TGCCAGGCCAATGTGTAGCTTGGTGGCGCCCTTGAAGGCCACTGGGGGTAGGTGTGTCTCCCCCGGGGCTGGA
GGCCGGGTGCCTGGTGGGTGGGCCTGACCTGGCCACCTCATCCCTCCAGCCTGGGATCTCACTGCTCTGCACCT
GTGCACTGACGTGAATTTTATACGTTTGTAGAACTCTGATGTAACCTTCTTCTACCTCTGAAGCGCCCTCCTGGG
CCTGCTGTACAGTGGCTGGTGCAGCTTCCCCGAGTGTGCGCCCTGCCGCTCCCCATGGGCACCCACCACTC
AAACTCTGCGTGTGTAGGCCCCGGGAAAGCCAGGCCGGGGCCTAGCACTGCTCAGGGGCTGGGGCTCCTGGGAT
TTCTGTGTGTTTGAAGCCTCTGTTTTTGGAGTGGGGGGCGTGAAGGCGGAGGGGCTGACAGTGCCTGGGGCC
AGAGCTGGGCGAAGGAGGACATCCTCACTGGACGAGCACTGCAGGCCTGACGAGAGGCTCCGGGCAGCTGAGGGC
TGAAGCGCCTCGGGATGCCCCACACTGCCAGAGCCACGGGTCTTGCTGTGCTGGGGGTGGGGTGGCCCCAGGCA
GCTGCCACTGCCAGGTGTGAGTCGCTGCAGACCTGGTCCCTGAGGGTGGGAGGCCTGCTTGTGCTGAAGCTGCC
ATGTGGTCTGGCCCCAGAAGGGCTCCTGAGCGTAGGGAGTTAGCCCCGAGCCGTGGCGGCATCTCCTCCTCC
TTCTCCGCCCCATGCCAGCCTTGCTTCCGGCTGGTGGCATGCCTTGGGGCCGGGCAGCAGGTGAGAAGCTGCC
CCCGGAGGGAGGGGGCCAAGGGCTGGGTGAGTCTGGCCTGAGGGGTGGATGGCTGGCCCTGGGGGAAGGTGGGC
TGGGAGGCCCTGTGGACAGCAGGCCTGAGGCCACGAGGTCTGGGGCCACCCCTCTCCTGCTCTGGGTGTCTTC
TCAGAGAAGATGGCAGAAGGCTGCAGGCCCTAGAGGGGACGACGGGCTGGGGACGCCCTGAGCTTCTGGCTGTG
TGGCAGGTGCTGGGGAAGCTCTCTGGGCCATAGGGACCTGGCTCCCCTCTGAGAGGCCCCGCTGCCCTGGGACAC
CCAGGGCTGTGCTGGTGGCCTGAGGCTGGGAAGTGGGTTCCTGGGCTCTGCTGGCGCCTGGGCTTTGTGGGGGC
CGAAGGTGGTTGCCCCGCGGGCAGGGGGCTGTGTGGGCCCTCGTGGGGCCACCTTCTGTGCTGAGTCCCCGAGGGA
CGGTGGGACAGTTGCCCTGCGCCAAGGGAGCCCACTGCCATCCCCGTGGGCTGGCGCTGAGTCCGCGCACCTT
GTGTTGCCCTGCTGACTTGCTTATGTCTGTTTGAAGCTGCTTCTGTTTGGCCACAGGCCTGTGTTCTGGGCTGA
TGGCCACAGAGCTGACACTTGGGGTTTGAAGTCCAGACTTGACAGACCTGGGATCCGCTTACTCCTCCGCGCCAC
GGCTGCTGTGCTTCCAGAGGTGGCGTGATGCCCTCCCGGGGCCACGGTGGGGTGAAGGATGGCGAGCCGGACATAC
CATTTGTTGGATGTATTTTTTTTAAACAGCAATAATTAGCCATTTTAAAGGAGGGATGTACCTGTGTGTGTGCAT
GTGCACGTGTTTGAAGCTGTGTGTGTGTGTGCAAGTGGGTCTTGGATATGTGTAGTGTGAGCATGTGTGCATGT
GTGAGCCTGTGCACGTGCATGTTGTAGGTGCATAAGCATGTACACGCTGAGCATGCATGTGCGTGTACACGTGT
ATAGGTGTACATGTGCATGAGTTGTGTACATGCGTGAGCAGTGTATAGATGTACGTGTGTGTGCGCATGTGTGC
GTGTACATGTGTTTGTGTCTTGGGTATGCATAAGCATGCACGTGTGTATGAATGTGCGTGTGTATGCATGAGCAC
GTATGCATGTGTGATGCGCATGTTCTTGTGTACTTCTCTGAGGGGGCACATATGTATGAGTGTATGAGTGCATAC
ATATGCATATGGTGTACGTGTGTGTACTTTGTGTGTGGGCATGTATGCGTATGAGTACTTGTGTGTGGCTGGTGT
ATGGGTGAGCATGCACATGTGTATGGATGCATATGTGAGCTGTACATGTAGAGTGTACATGTGTGTTGCATGAGC

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FIGURE 1384B

ATGCATGCGTGCGAGTGCCTGTGTGTGTACTTGCATATATGTGGCTGTGCAGGTACCCGGCGGTGGTGGGCTGGC
AGTGCCCCGGGGAAGCAGGTCCTGCTCACGGCTTCCCTGCTGGGCCCCAGGCCCCGGGCTGAGCCTCCCTGGCCCC
TCTTGCCCCCTCAGTGGAGCAGGGCCTGGGTGGAGGGCCTGGGCAGCTCCAGGGCAGGTCCGGGGAGGCCAGGCTT
GGGGAGCACAGGGGGTGGGGTTACCTGCTGCTGTTTGTTCGCGAACTGTACTGTGAGCCACGGCGGGGGCAG
ATTGTTCTGAGGCCCCAGATGTGCCAAAACAGCCCCAGGGTGGGGGCGAGCGAGTTCTGAGGAGAGGGGCTGCG
GGGGCCGGGGGTGGGTGTGTGCCCCCTCCCCTGAATGGCCCCCAATGCTGCTGTTTTTCAATAAAACCAGAGTTGA
AGGC

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FIGURE 1385

MSMHACECLCVYLHICGCAGTRRWAGSARGSRSCSRLPCWAPGPGLSLPGPSCPSVEQGLGGGPGQLQGRSGEA
RLGEHRGWGSPAAVCSRNCTVSPRRGQIVLRPQMCONSPQGGGERVLRRGAAGAGGGCVPLP

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FIGURE 1386

GAGGAGCTCTCCTGGGCGGCTGAAGAAGGAGCTTCTTCTCCGGAGTGC GAAGGCGGTGGCGCCTGCGGACCTAAC
TAGCTCCAGGTTAGGCCGAGCTTTGCGGGAAAGCAGCGGACTTGAAAATACTGGAAATCTGTCCGGATCCAAATT
ATTTTGCAAGCCAGATGAGTAACCAGAGGGCATGAAAGGTTGAGAACATTTGACTTCCCTGCAAACTTGGTATA
GATCACTTCCTTTTCTGTAGGAAAGGAAAGGCACCAAGAGCACAAATGAGTACAAGAAAGCGTCGTGGTGGAGCA
ATAAATTCTAGACAAGCTCAGAAGCGAACTCGGGAAGCAACCTCCACCCCGAGATCTCCTTGGAAAGCAGAACCC
ATAGAACTCGTGGAAACTGCTGGAGATGAAATTGTGGACCTCACTTGTGAATCTTTAGAGCCTGTGGTGGTTGAT
CTGACTCACAAATGACTCTGTTGTGATTGTTGACGAAAGAAGAAGACCAAGGAGGAATGCTAGGAGGCTGCCCCAG
GACCATGCTGACAGCTGTGTGGTGAGCAGTGACGATGAGGAGTTGTCCAGGGACAGAGACGTATATGTGACTACC
CATACTCCCAGAAACGCCAGGGATGAGGGCGCTACAGGCCTCAGGCCCTCAGGTACTGTCACTTGTCCCATCTGC
ATGGACGGATACTCAGAGATCGTGCAGAAATGGACGCTCATCGTTTTCCACAGAATGCGGCCATGTCTTCTGTAGC
CAGTGCCCTCCGTGATTCCCTGAAGAATGCTAATACTTGCCCAACTTGTAGGAAAAAGATCAACCACAAACGGTAC
CACCCCATTTATATATGAAGTATTGAGAGCCCCCAGGAGAGACGGATGGACAGACAGACAGCCAGGTTCTCCAG
TGGTATCTGCCTCCATTTTCTGAGATCAAAAAGACTGTTTCGAAACCAACATCTGATATGTAAACTGCTCTTTT
GTTTCCAACCCCTTCCTTTTGTATCTCCAGTTTGATGCTATGGCGCTGGACCCAGGGCCCTCCAGGCCATCTC
TGTTCTCTGGGGTGGTCCAGTTCTAGAGTGGGAGAAAGGGAGTCAGGCGCATTGGGAATCGTGGTTCCAGTCTG
GTTGCAGAACTGACATTTGCCAAGAAATTTCCCTGTTTGGAAAGTTTGGCCAGCTTTCCCGGCACACCAC
CTTTTGTCCCAAGTGTCTGCCGGTCGACCAATCTGCCTGCCACACATTGACCAAGCCAGACCCGGTTCACCCAGC
TCGAGGATCCCAGGTTGAAGAGTGGCCCTTGAGGCCCTGGAAGACCAATCACTGGACTTCTTCCCTTGAGAGT
CAGAGGTACCCGTGATTCTGCCTGCACCTTATCATTGATCTGCAGTGATTCTGCAAATCAAGAGAACTCTGC
AGGGCACTCCCCTGTTTCTTAAGAACGAAAAAGTGCAATAAAGGCCATTTCGTTACCTACTTTTACAGAGCCCA
AGATGTAGCACTATTAGTGTCCCCCTCAGAGGCTTAATGTTGCCTGTGGAGCAGTGCCCATCCAGCCCGTTTCT
GCCACCAGTTGTTTCTCAGGAACCTTACCCATGCTCCAGCGTCTTACCTGGCACAGGACATGCAAGATAAATA
GGGCAGGCACGTGTTTGGGTGTCTCTCTTTTCTGATAAAATCCATCCCGTGTGTGGCACAGCCCTCCAGTCCT
CAGTTCCCACTGCCTAACGTCTGCCCCCGTGTAGATACTGAGAGGTGGTGGCAGTAATTGTGGCCTTATCAGCCG
CTCAGTTCCAGGCTTTTGGCCAGGTCAGTGTGCCCCATGTTGCGGAGAACCTGGCCACCTGTCTTGGCTTTCTC
ATCCTTCCCAACCCAGTGCCGTTTATTTGAGAACTTCTGCGCCACTGGGCTTGATGCTTCGGGCTTCTGACTG
CTCCATAGGTTTTGACTGGTGAAACAGGGGCCAGATGACAACCTCTCCTTCGCTCCACAGGTACGCGGGAGCCT
CAGGTTCTCTCAGGGGCAGCAAAGTGGCCCAAGCTGCCCTGACAGCACAGGGCCTGGGGGTGGCTAACGAGAGA
GGCCTTACAGTGCCGGCATGCCTCCTCTTCCACTGTCGTCCTTCTCAGAGGGCCTCAGGCCAAACAAACGGCCT
TTTCGTGTGAAACATCTTCAGGGCGGAAAGGGGCCACTTCTGGCTTTGTTAGCAATAACTGACCTTCACTTTAC
CCTTCTGAAGGAGCAGGGACTCAGCACAGAAATCACTTTAGACGGGGCTGAAGGAGTGTCCCTCCTCTATGTGAA
AAGAAAATTGTTTTATTCTTCACTTCTGACTTTTTAACTGTTTGGCTCACTTCCAGTTAGTTTGAATGAAAAATAAT
AATTTTCTACTTGGAGTTGAAGAGGGCAGAAATCCGCAGCTCTCATCATTGTGATGTGTAGCATGTCTGCCCTCTG
ACTGGACATCATTGCCATTAACCTTTCTTCTGGGCATCACGGCAGTGTACGATGCCCAGACTTGGAGCAAGGCCAA
CCTTGGAGTCAGTCCACTCATAAAATATGGTAACACCCATTTTAAATTTAAGTTTTGTCCTTAAAGACAACCTC
AGTGGTTAATTATAAAAGTTGTGTTACTTCGTCTCTAAATTAAATTGATAGAAAGATTTAAAAATGTGTTTTGTTT
CTACTATTGAGAACTGCGAACTAGGGAAAGGTTGGTATGAAAAATGTCTTTCTTTTTTCAATGTACATAGTT
CAACTCTTTCTTTGTTACATTTAACTATATCCATGGATATCAGTCTGCTTTGGACTCCTCTGCTAGTGTACAG
ATGGAAATAAAACCATTAATTTGAACCAA

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FIGURE 1387

MSTRKRRGGAINSRQAQKRTREATSTPEISLEAEPIELVETAGDEIVDLTCEPLEPVVVDLTHNDSVVIVDERRR
PRRNARRLPQDHADSCVVSSDDEELSRDRDVYVTTHTPRNARDEGATGLRPSGTVSCPICMDGYSEIVQNGRLIV
STECGHVFCSQCLRDSLKNANTCPTCRKKINHKRYHPYYI

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FIGURE 1388A

CGGCGCGCTCGCCGSCGAGGTGGGATCCCGAGGCCCTCTCCAGTCCGCCGAGGGCGCACCACCGGCCCGTCTCGC
CCGCCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAAGATTGTACAATGAATGGTGATTCT
CGTGCTGCGGTGGTGACCTCACCACCCCCGACCACAGCCCCCTACAAGGAGAGGTACTTCGACCGAGTAGATGAG
AACAAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAAG
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG
AAGGGGAAGAACCCACAGGCCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTT
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAACCAGAGTGAACCTCCGAGCAGGAACACTTC
CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGAAGTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT
ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCA
CGCCCGGACGTGAAGTGCGTCGTGCACATTACACCCCAGCAGGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC
TTGCCAATCTCCCCGGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTGAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGATCCAGGTTTGA
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCGTTCC
CCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC
ATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCCTTATCGATAACCTGCTCTGAGAGAGAAGTCTAAA
AAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCTGGGCACTTGC
TCCCCACTCAGACACAGTTTTTCAAGCAGCAGCGGGAGAAGACAAGATGGCTGAACTCTGGCCGGGGCGACGAA
GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTCGAAGACTAAGTGGACTAAAGAGGATGGACATAGAAGT
TCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAG
ATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCAGGTTTTGTGTGGTGTAGTGTGGAC
AGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCCACGTCATT
GTGAGCACCACGGGCCCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAGTACCGCAGGGAGGTGGAG
AGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAGAGTCTCCAGACCAGCCT
GCGGTCCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGGAGACGGATGCGCTAGAGAGTACCTGTTA
CCCTAACCTTGTGCCGGAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAACCTCTCCCCGATCT
GTCCCTGTATGAACCTTCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCAAG
CCCCACTGAGGCCCTACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTGCCCC
CTCAGCTGTGAGGAGGGGGCCGCCGCGGACCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAAGAA
GAAGAAGTTCCGTACCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCCTGAAAGCCCTGCGCTAACAC
TGTCTGTCCGGAGCGACCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATG
CAAAAAGCCAAGCCCTCCGCTAGAGGTCCCCTCACGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTG
TGCTCAGCAGCCCCACCCACCTGCCCTTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCA
CAGGGGGGAGGCACTAAGTCATGGTCTCTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCAGCTACCC
TCCTGAGCCTCACCTTTCTGCGTCCCTCCTGTTGTGAATCACCACATTCTCTCTGCTCAGTGATCTCACTAA
ACCCTAAAGTCTCAGGTGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTCTGCTCAGTGATCTCACTAA
ATCTATATACAAAGCCTTGGTCCCGTGAAAACACTCGTGTGCCACCCAGCGGCCTTGAAGAGGCAGGTCTGGGCC
AGATGCTGGGCAGGAACCCACGCGGCAGATGGGCCTGTGTGCACCCAACGTGATGCTATGCATGTCTGACCGAC
GATCCCTCGACCAGAATCAGATTCAGGAGCTCAGTTTCTTTTTTCACTTGGGTCTCTGGATTCTGTCTAGGGAA
GGTATATCAGGAGGGGAAGAGGCCTTTCTAGAAATTTCTTTGAGCAGGTTTACAATTTAGCTTACATTTTTTCGAC
TGTGAACGTGAATAGGCTGCTTTTTGCTTTCTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGG
GAGGCTTCAGGGGACTGTTCTCACCTTAACCTCAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTCAGGCT
GGAGGGTAGCCCTGGGGCCCCCTCGACATCACCGTCATTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTG
TTGTTGTTACTTCCCTCCAAGAGGCTGGAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCCATTTTC
AGGAGGTGCCGGTACCAGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCAACAGGCCCTTGGTAGAGCTGGTG
CCAGATGTGGGCTCAGATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGA

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FIGURE 1388B

ACCAGGCTGCTGCATGGCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGT
GCTGCCTCTCTTCTGTGTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCC
CTCCTTTACCCACATATGCAATGACTTTTAATTTTCACTTTTGTAGTTTAATCCTTTGTATTACAACATGAAAT
ATAGTTGCATATATGGACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTTCTCCAGTGTAACATGTTTTACTC
ACAAATAAAATTCTTTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1389

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI
QEQFKKGKNPTGLLALQQIADFM TTNV PNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA
AFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGP KSKVLILR
NHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQ
EFEALMRMLDNLGYRTGYRYPALREKSKKYS DVEVPASVTGYSFASDGDSGTCSP LRHSFQKQQRKTRWLNS
GRGDEASEEGQNGSSPKSKTKWTKEDGHRTSTSAVPNLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLC
GVVMDRSLVQGELVTASKAIEKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGCEENLDEAREQKEKS
PPDQPAVPHPPPSTPIKLEEGDGCAREYLLP

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FIGURE 1390A

CGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACACCAGGCCCGTCTCGC
 CCGCCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAGATTGTACAATGAATGGTGATTCT
 CGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCCTCACAAGGAGAGGTACTTCGACCGAGTAGATGAG
 AACAAACCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAG
 AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG
 AAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC
 TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTT
 AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA
 GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAACCAGAGTGAACCTCGAGCAGGAACACTTC
 CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT
 ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCA
 CGCCCGGACGTGAAGTGCGTCTGTCACATTACACCCCGAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC
 TTGCCAATCTCCCCGGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
 GAGGAAAAAGTTTGTATTGAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG
 TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGATCCAGGTTCGA
 ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCCTTCC
 CCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC
 ATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCCTTATCGATACCCTGCTCTGAGAGAGAAGTCTAAA
 AAATACAGCGATGTGGAGGTTCCGTGCTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCCGGGCCTTGC
 TCCCCACTCAGACACAGTTTTTCAAGCAGCAGCGGGAGAAGACAAGATGGCTGAACCTTGCCCGGGGCGACGAA
 GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTCAAGACTAAGGTGTGGACGAACATTACACACGATCAC
 GTGAAACCCCTTGCTGCAGTCTCTCTCGTCCGGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAA
 GAGGATGGACATAGAACTTCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCCAAAAGAGGTC
 CAGGAGATGAGGAACAAGATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTG
 TGTGGTGTAGTGATGGACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAG
 TACCAGCCCCACGTATTGTGAGCACCACGGGCCCCAACCTTACACACTCACAGACCGTGAGCTGGAGGAG
 TACCGCAGGGAGGTGGAGAGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAG
 AGTCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGACCTTGTGCCG
 GAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAACCTCTCCCCGATCTGTCCCCCTGATGAACCT
 TCAGAAGCACFCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCCAAGCCCCACTGAGGCCCTT
 ACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTGCCCCCTCAGCTGTGAGGAG
 GGGGCCGCGCGGACCCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCGTCCAAAAAGAAAGAAAGTTCCGTACC
 CCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCTGAAGGCCCTGCGCTAACACTGTCTGTCCGAGCG
 ACCCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATGCAAAAAAGCCAAGCCC
 TCCGCCTAGAGGTCCCCTCAGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTGTGCTCAGCAGCCCCAC
 CCCACCCTGCCCCCTTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCACAGGGGGGAGGCACTA
 AGTCATGGTCTCTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCCCTCCTGAGCCTCACCTT
 TCCTGCCGTCCCTCCTGTTGTGAAATCACCACATTCTGTCTCTGCTTGGCTTCCCCTCCACCCTAAAGTCTCAGG
 TGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTCTGCTCAGTGATCTCACTTAAATCTATATACAAAGCC
 TTGGTCCCGTGAAAACACTCGTGTGCCACCAGCGGCCTTGAAGAGGCAGGTCTGGGCCAGATGCTGGGCAGGAA
 ACCCCAGCGGCAGATGGGCCTGTGTGCACCCAACGTGATGCTATGCATGTCTGACCGACGATCCCTCGACCAGAA
 TCAGATTACAGGAGCTCAGTTTCTTTTTCACTTGGGTCTCTGGATTCTGTGTCATAGGGAAGGTATATCAGGAGGGG
 AAGAGGCCTTTCTAGAATTTTCTTTGAGCAGGTTTACAATTTAGCTTACATTTTTCGACTGTGAACGTGAATAGG
 CTGCTTTTTTGCTTTCTTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGGGAGGCTTCAGGGGACT
 GTTCTCACCTTAACCTCAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTCAGAGGTGGAGGGTAGCCCTGGG
 GCCCTCGACATCACCGTCATTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTGTTGTTGTTACTTCCCT
 CCAAGAGGCTGGAAAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCATTTTCAAGAGGTGCCCGTACC
 AGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCCAACAGGCCCTTGGTAGAGCTGGTGCCAGATGTGGGCTCAG

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FIGURE 1390B

ATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGAACCAGGCTGCTGCATG
GCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGTGCTGCCTCTCTTCTGT
GTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCCTCCTTTACCCACAT
ATGCAATGACTTTTAATTTTCACTTTTGTAGTTTAATCCTTTGTATTACAACATGAAATATAGTTGCATATATGG
ACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTTCTCCAGTGTAACATGTTTTACTCACAATAAAATTCTTT
CAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1391

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI
QEQFKKGKNPTGLLALQQIADFMTTNVFNVPYAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA
AFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR
NHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQ
EFEALMRMLDNLGYRTGYRYPALREKSKKYSDEVPASVTGYSFASDGDSGTCSPLRHSFQKQOREKTRWLS
GRGDEASEEGQNGSSPKSKTKVWTNITHDHVKPLLQSLSSGVCVPSCITNCLWTKEDGHRTSTSAVPNLFVPLNT
NPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVMDRSLVQGELVTASKAIIKEYQPHVIVSTTGPNPFTTLD
RELEEYRREVERKQKGCEENLDEAREQKEKSPPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDL
SPDEPSEALGFPMLEKEEEAHRPPSPTEAPTEASPEPAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKK
KKFRTPSFLKKSKKKSDS

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FIGURE 1392

GCACGTGTCTTAGGGTAGCGCGCGCCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGCGCCAT
GGCGAAGGCGAAGAAGGTCGGGGCGCGAAGGAAGGCCTCCGGGGCGCCGGCGGGGAGCGCGAGGGGGCCCGGCGAA
GGCCAACTCCAATCCGTTTCGAGGTGAAAGTTAACAGGCAGAAGTTCAGATCCTGGGCCGGAAGACGCGCCACGA
CGTGGGACTGCCCGGGGTGTCTCGCGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGA
AAGGGATAAAATCCAATGTATTAGAGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGAT
GATGAAGAGGTTTGCTCTGGAACAGCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGA
ATTGACTCATTATGGCCAGTCTTTGGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGA
GGATCGAGGAACGTTGTCTGCTGAGCTGACTGCTGCCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGAC
TCAACAGGAAGGCGAGGAGCGGGAGAAACCGAAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAA
ACAAGAGAAGAGGGAGAGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAA
AGAAATTCAGACTCTCCTGTCCCAAAAACCTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCCAAGCCCGA
TGCATATGACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGC
AGAATTGGCAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGA
TGAGGATGAAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGA
TGACAGGCGTTTGCTTTCTACAAAGATGGAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGA
AGCCAGTGACCCTGAGAGCAACGAGGAAGAAGGTGACAGTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCC
AGATAGCCACTTGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCA
GACTCCTGGGAAAGGGTTGATAAGCGGCAAGGAAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTT
CGCAGCCCCTGAATCCTATGAGGAACTGAGATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGT
GGAGAGAATTGAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAAACAAAGCAAAATTAGAAAACTGTTTGGCTT
TCTTTTGAATACGTTGGCGATTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCA
CTTATATCATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCA
TGAGATGGAAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAT
CACTGGGCTGCTATTTCCAACCTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCT
GCTCACCAGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAAGGGCCTGTTCTGTGTGCTGCCTGTTCTGGAGTA
TGTGGCTTTGTCCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAA
CAAAGCAAGCCAAGGTTCCACTCTGGTGACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTG
TGCTAGAGAGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAAC
TTCGACAGAGGCCAATCACATCCGACTGTCTGCTGGCTGTGGGCCTGGCCCTGCTGAAGCGCTGCGTGCTCAT
GTACGGGTCCCTGCCATCCTTCCACGCCATCATGGGGCCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTG
CAGCCACCCGCAGGAGCTCCAGGAGCTGTGTGAGAGCACACTGACCGAAATGGAAGCCAGAAGCAGCTCTGCCG
GCCGCTGACCTGTGAGAAGAGCAAGCCTGTCCCACTGAAGCTTTTACACCCCGGCTGGTCAAAGTCTCTGAGTT
TGGAAGAAAACAAGGCAGTAGTAAGGAGGAACAGGAAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAA
AGGGGCCGTTTCGAGAAATCCGCAAGGACAATCAGTTCTTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGA
TGCGGAAAGAAAGCGGAAAGTAAAGCAGCTTTTTTAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAA
GAGGAAAAAGTTCAAAAAATTAAATTACATTTTATAAATAAGGCAAGGAAGTGGACATTACCTCACATCTGCAATT
CCAACCCTCTGGGAGGCCAAGGCAGGAAGATTGCTTCAGCCCAGGAGTTCGAGACCAGCCTGGGCAACACAGGAA
GACCCCGTCTCTACCAAAAAAACATAAAAAATTAGCCAAGTGTGGTGGCAGCACCTGTAGTCCCACTACTCGGG
AGGCTGAAGCAGGAGGACTGCTTGAGCTGAGTCCAAGGTTACAGTGAGCCGTGATTGAGCCACTGCACTCCAGCC
TCGGCCACAGTGCAAGACTGTGTGCTTAAAAAAAATTTTTTTTTTGAGACGGAGTTTTGCTCTTGTGTTGCCA
GGCTGGAGTGCAATGGCACAACTCCACCTCTGGGTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGG
GATTACAGACATGTGCCACCACGCCAGCTAATTTTGATTTTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAG
GCTGGTCTCGAATTCCCGACCTCAGGTAATCCACCTGCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACC
AGCCAAAAAAGTAATTTTTTTTAGAGTAATAATGCTATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACC
CGCTGCCTGCGGTTTTGTTTCTGTTAAACGTCACCTGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGAT
CGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCAGTGCCTGTGGACAAGCCTCATGGGGACTGGGGATTCT
GGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCTTCATGTGTAGAATTTACTGTTGTTATGCAATTATATT
TTCAATTATAAATG

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FIGURE 1393

MAKAKKVGARRKASGAPAGARGGPAKANSNPFEVKVNRQKFQILGRKTRHDVGLPGVSRARALRKRTQTLLKEYK
ERDKSNVFRDKRFGEYNSNMSPEEKMMKRFALEQQRHHEKCSIYNLNEDEELTHYGQSLADIEKHNDIVDSDDA
EDRGTLSAELTAAHFGGGGGLLHKKTQQEGEEREKPKSRKELIEELIAKSKQEKRRERQAQREDALELTEKLDQDW
KEIQTLLSHKTPKSENDRDKKEKPKPDAYDMMVRELGFEMKAQPSNRMKTEAELAKEEQEHLRKLEAERLRRMLGK
DEDENVKKPKHMSADDLNDGFVLDKDDRLLSYKDGKMNVEEDVQEEQSKEASDPESNEEEGDSSGGEDTEESDS
PDSHLDLESNVESEEEENEKPAKEQRQTPGKGLISGKERAGKATRDELPYTFAAPESYEELRSLLLGRSMEEQLLV
VERIQKCNHPSLAEGNKAKLEKLFGLLEYVGDLATDDPPDLTVIDKLVVHLYHLCQMFESASDAIKFVLRDAM
HEMEEMIETKGRAALPGLDVLIYLIKITGLLFPTSDFWHPVVTALVCLSQLLTCKPILSLQDVVKGLFVCCLFLE
YVALSQRFIPELINFLLGILYIATPNKASQGSTLVHPPFRALGKNSSELLVVSAREDVATWQQSSLSLRWASRLRAP
TSTEANHIRLSCLAVGLALLKRCVLMYGSLSFHAIMGFLQALLTDHLADCSHPQELQELCQSTLTEMESQKQLC
RPLTCEKSKPVPLKLFTPRLVKVLEFGRKQGSKEEQERKRLIHKHKREFKGAVREIRKDNQFLARMQLSEIMER
DAERKRKVKQLFNSLATQEGEWKALKRKKFKK

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FIGURE 1394A

CCCTCCGGCTCGGCGAAGCAGGGAAGGGGAGAGAAGCAGGAGTCGGGAGACTGCACAGGCCAGAAAGTCTGCGGA
GCGGGCCGCGCCCTGGCCCGCCGGGCTCCAAGTCCCGCGTCGCCGCCCTGGCGGGGACGGTGCAGCAGGCGGC
GGGATGCGGCGGGGCGGCAGCCTGAGCGCCCCGGATGCGCCCGCGGGCGGCCTGCAAGAGCGACGCGCGGCT
GCTGCTGGGGCGGGACGCGCTGCGGCCGGCGCCCGCCCTGCTGGCCCCCGCCGTGCTGCTGGGCGCCGCGCTCGG
CCTCGGCCTCGGCCTTTGGCTTGGCTGCCGCGGGCCGCCAGCGCACGCGACACCAGAAAGACGACACTCAAAA
TCTGCTCAAGAATTTGGAGTCTAATGCGCAGACCCCTCGGAAACTGGCTCCCCATCAAGGAGGAGGAAGAGAGA
AGTGCAGATGTGGAAGGACAAGGAAGCTGTTGATGAATGTGAGCCGCTTCCAACAGCAATATCACAGCATTTCGC
CCTGAAGGCCAAAGTCATCTACCCCATCAATCAGAAGTTCGGCCTCTGGCCGATGGCTCCTCCAACCCGTCTCT
GCAAGAACTTAAAGCAGGCTGTTTGGCCACACCAGCCGGTAGAGGCCTCTCCTTCCAGCAGTCTGGGGAGCCT
GAGCCAGGTTGAGAAGGACGACTGCAGCTCCTCATCCAGCGTCCACTCGGCCACCAGCGATGACAGGTTTCTCAG
CCGACCTTCCCTCCGGGTGAACGCCTTCCCTGAAGTGCTGGCCTGCGAGAGTGTAGACGTTGACCTGTGTATCTA
CAGCCTTCACTTAAAAGACCTGCTGCATTTGGACACGGCACTGAGGCAGGAAAAGCATATGATGTTTATTTCAGAT
TTTTAAATGTGCCTCCTTGACCTTCTTCTTAAAGAAAGTCAAGATGATGAATTATACCAGAAGATCCTTTCAA
ACAAGAAAAGATTTGGAGGAAGTAGAAAAGGGACTTCAGGTCAAAGTGTCAAACACAGAAATGTCGGGGGCTGG
TGACTCTGAGTACATCACCTGGCTGATGTGGAAAAGAAGGAGAGAGAATACTCTGAACAGCTAATCGATAATAT
GGAAGCTTCTGGAACAGATGGCAAATATCCAGCACTTCTTGTGGACAGTTTAAGTGTTCAGCTCCAAAGC
CCGACAGCTGATGATGACTCTGACGGAAGAATGATTGCAGCCGAAGGGCTATTGTGCGATTCTCAGGAGCTGCA
GGCTCTGGACGCCCTGGAGAGGACGATGGGGCGGGCGACATGGCAAAGTGATTGAGTTTCTGAAGCTGCAAGT
CCAGGAGGAGACCAGGTGCCGGCTGGCTGCCATCTCCACGGCCTGGAGCTGCTGGCTGGTGAGGGGAAGCTGTC
CGGGCGGCAGAAGGAGGAGCTGCTCACGCAGCAGCACAAGGCCCTTCTGGCAGGAGGCAGAGCGCTTCAGCCGGGA
GTTTGTCCAGCGAGGCAAAGACCTGGTCACGGCGTCTCTGGCTCACCAGGTGGAGGGAACGGCAAAGTCAACGCT
GGCCCAAGAGGAGGAACAGAGAAGCTTCTGGCTGAGGCCAGCCGACTGCTGACCCGGAAGTTTCTCGAGGC
TTTTCATGAGGTCTTGAGAGGCAGAGGCTGATGCAGTGTGACCTGGAGGAAGAGGAGAATGTCAGAGCCACCGA
GGCTGTGGTTGCACTCTGCCAGGAGCTGTACTTCAGCACCGTGGACACTTTCAGAAAGTTCGTGGATGCCCTGTT
CCTTCAGACGCTCCCTGGCATGACTGGCCTCCCCCGGAAGAGTGTGACTACTTGAGGCAGGAAGTCCAGGAGAA
CGCTGCCTGGCAGCTGGGGAAGTCAAATCGCTTCCGGAGGCAGCAGTGGAAACTCTTCCAGGAGCTCCTAGAGCA
AGACCAGCAGGTGTGGATGGAGGAGTGTGCGCTGTCCAGCGTGTGTCAGACACACCTGCGGGAGGACCACGAGGG
CACCATCCGCGGCGTCTTGGGCCGACTGGGCGGCTCACTGAAGAGTCCACGCGGTGTGTCCTGCAGGGGCATGA
CCTGCTGTTGCGCTCAGCCCTCCGGAGGCTGGCACTCCGCGGCAACGCCCTGGCCACCTGACGCAGATGCGGCT
ATCGGGGAAGAAGCACCTCCTGCAGGAGCTGCGGGAACAGCGTGCAGTGGAGCAGGGGTCTCCAGTGCCTGGA
CGAGCATCAGTGGCAGCTGCTCAGGGCCCTGGAGGCGCTGTGCTGGAGGAGGCCAGCCGGCTAGAGGAGGAAGC
ACAGCAGACACGGCTGCAGCTCCAGCAGCGGCTCCTGGCCGAGGCCAGGAGGTGGGGCAGCTTCTGCAGCAGCA
CATGGAGTGCGCCATTGGGCAGGCGCTGCTGGTGCATGCACGGAATGCAGCCACCAAGAGCCGGGCCAAGGACAG
GGATGACTTCAAGAGGACACTGATGGAGGCGGCACTGGAGAGCGTCTACGTGACCAGCGCTGGTGTGAGCCGCT
GGTGCAGGCGTATTACCAGCAAATCGGAAGGATCATGGAGGACCACGAGGAGAGAAAAGTGCAGCACCTGAAGAC
CCTGCAGGGTGAGAGGATGGAATAATACAACTGCGGAAAAGCAAGAAGTCAAGCAACCTTCGTGCGGCAGCAG
GACGGCAGGTGGCGCTCATGAGACCTCCAGGCGGTCCACCAGAGGATGCTGTCCAGCAGAAGAGGTTCCTGGC
CCAGTTCCTAGTGCACCAGCAGATGCGTCTGCACGCCAGCAGCAGCAGGAGGAGTGCAGACCTTCTGGAAGC
CCAGCTGGAGACCCAGCTACAGGAAGCTGAACAGAACTTCATCTCCGAGCTGGCAGCCTTGGCCCCAGTGGCCCT
TGCTGAAAGCAAAGTGTGCTGCTAAGCGTGGGCTGCTAGAGAAGCCCCCTAAGGACTAAAAGGAAGAAGCCCCCT
GCCCCAGGAAAGAGGGGACCTGGGGGTGCCCAACAATGAGGACCTTGCCCTCCGGGGACCAGACCTCAGGCTCACT
CAGCAGCAAAGGCTGAGTCAGCAAGAAAGTGAAGCTGGGGACAGTGGGAAGTCAAAGAAGATGCTAAAGAGAAG
AAGCAACTTGTAGTTTAAAGACCAGTCGGTGGGACAAGACCTGAAGCCCTGGGTCTGGGTGTGAATTCCACCTTCC
CTCCTGCAGTGTGAGAGGCAGCGAGGACGGAGAGGACAGCGCATCTCTAGGCTCTTCTGAGAGGGACAGAGAA
AGAATAGAAATGTGCCCTAAAAGCATAAATGAGTATCACCTGAGAAAATTAGGCATTCCCGTCTTGGAAACACGT
CTCTGTGAGTTTGCATTTTCAATTTGGCTTGGAGCCCTGGCTCGATGCCTCATGGATCTTTCTCCCAAGGAGGGAC
GTCTTGAGGGGTCCGAGCCTCAGGCCAAGGACCCCTGATGCAGACTCTGGAATCCCTGGCCCAAGGCCTGTCTG
GGCCATCTGGGGCTGAGGACACACAGATACATAATGACACCTGCAGAAATGTATTCTGAGGACACTTAGAAT

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FIGURE 1394B

ATGAGGAAGAGGGTGTGGCCCAACCCTCACTTCACCTGGGGAGGGGCTTCTTCCGGACAGTAGACACCCTGCCCCG
TGCAGAGAGATGTCATGGGGGCACCTGCTCTCCCTGATAGATGCTGAGAGCATCCAGAACTTCCAGACCAGCCC
TCTCACCACACCCAGAAGAGGCCTTTCCCATCTGGAGAGAAGCTTCCAGACCAGCCCTTCACACACCACAGCCAG
GAGGGGGCTTTCCACCTGGAGAGAACTTCCAGACCAGCCCTCATACCACAGCCAAGAGGGGCTTTCTCACC
TGGAGAGAAATTTCCAGACCATCCCCTCTCACCACAGCCAGGAGAGGCCTTTCCACCGGTAGAGAACTTCCAG
ACCAGCCCCCTCACACCACAGCCAAGAGAAGCCTTTCCAGCCTGGAGAGAACTTCCAGACCAGCCCTCTCACTAC
AGCCAGGAGAGGCCTTTCCCGCCTGGAACTTCCGGACAAGCCTCTCACACACCACAGCCAGGAGAGGCCTTTCC
CACCTGGACAGAACTTCCAGACCAGCCCTCTCACCACAGCCAGGAGAGGCCTTTACCACCTGGAGAGAAGCTT
CCAGACCAGCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGACCAGCCCCTCAT
ACCACAGCCAAGAGGGGCTTTCTCACCCTGGAGAGAACTTCCAGACCAGCCCCTCACACCACCGCCAGGAGAGG
CCTTTCCACCGGGAGAGAACTTCCAGACCAGCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCGGGAGA
GAACTTCCAGACCAGCCCTCTCACTACAGCCAGAAGAGGCCTTTCCACCGGGAGAGGAACTTCCAGACCAGCC
CCTCACACCACAGCCAGGAGAGGCCTTTCCCGCCTGGAGAGAAGCTTCAGGCCAGCTCCTCACACCACAGCCAGG
AGAGACCTTTTCTGCCCTGGAGAGAACTTTCAGACCAGCCCCACACACCACAGCCAGGAGAGGCCGTTCTCGCCT
GGAGAGAAGCTTCCAGACCAGCCCTTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGA
CCAGCCCCCTCTCACCACAGCCAGGAGAGGCCGTTCCACCTGGAGGGGAAATTTGCTCCTTTGATGGAGGTTAGGG
ACTGTACCCCTCAGCACTGTGAACATACCGGGCGAGATCATTCTTCAGGGGAAGGAGCTGCCAGAGCATCACAG
GATGTTCCAGTGTCCCTGGTCTCTGCCACCAGATGCCAGCACTCCCACCATTCGTGGCAACCAAGGATGTCTCC
AGACACTGCCCCGTGTCCATGGGGTTATCACCCACTGTGCTGAGTCAAAGGGTGCTTGCCCTGGTCTAATCCAG
GACATAGCCGTGGATACGTCCAAAATCCCCAGAACCTAGTGAGCCCTCTGGCTCTGGGAGCCCTATCTCAGGA
ATTTTCAGGGTCATTTGTGACTTTTCATTTCTTAAACCTGAAATAGACTCTCTTAGAAACAAGTGA CTCTTCC
CAGTGGCCAAAACCTTAATCATCAGAGCGCTTCCTTCAGTTTCTCACCATCAGCCAGTGGGCTCTCCAAAGTTAA
CCAACAGCTCCCTCTTGTGGTTCACTAAAAAAGCTTGGTTATTCCATGGAGTTGTGCAAAGCTATGGCTTCCTTG
TGCAATATTCTTAAACCTGCTTTGCATAGAAATCACTTTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCT
CATGGCAATCTCCATCTCCCGGGTTCAAGCGATTTTCTGCTCAGCCTCCCAGTAGCTGGGACTACAGACGTG
TGCCACCACGCCTGGCTAAATCTTTTTTGTATTTTATTTTAGTAGAGACGGGGTTTACCATACTGGCCAGGCTG
CTCTCGAACTCCTGACCTCATCGTCCACCTGCCTCGGCCTCCCCAAAGTGCTGAGATTAGGCGTTAGCCACCGCG
CCCGGCCAGAAATCACTTTTATATTGTACATGGGCCCTCTGCACAGAGTCCGATGGCTCCTCCCGGGGAAGCCT
GATTTTGTGACGTGTGTATAGTAAATGCAGGCCCTCTGGCAGCACCATAATTGGTCGGTTACCCTGAGCCAGAG
CTCTGAAAGCATCTGTGGAATGATCACGGGACCCTTCTCCTCTGAGAAGGCTCCCGGCTGCCTCCCCGCCACCGA
GCTTG TAGCCTGAATGCCTGGCTGTGCGATGGAGCATTTTGCTTCTGGGGTGCTTCTCCTTAGCCAAAGGGAACGT
GTCATTTGCTCGACCCTGGCCACCCTTGCCGCCAGCTGTTGTGCTGGGCACAGTCTGGGGCACAGGCCTCCAT
GATGAAGACGCGTGGGCTGTGGTGCTTTTCATCCGTACAAACTGGCACCTGTACCTGCCAGCAGGAGCATGATG
GGGACTTCCATGCTGGAATTGCTCCCTGATTAATAATGAGATATGGCTATTTGGAAGACACTGCATTTTAGCCAGT
GTACCTGGGCACAGACTCGGGGCTGCCCTGAAGCTGATGAAGGCTTGAAGGACGGAAGGGCTGAGCCACATGAAG
GCAGCACTCAGGGCCAGGGGAGAGAGAAGAGGATCAGCAGTGCAGCCCCAGGATGCCTCGCAGACGTGCCTTCTG
CCATGATTGTGAAGTTCTAGCCACGTGGAACCTCTCTCGGAAGAAGTGGTTGTTAAAGAGCACCTCTGCCTTCTTC
CTCTGTTGCCATGTGATCTCTGCACACGCTAGCTCTCCTTCGCCTTCTGCCATGCTGGAAGTAGCCTGAGGCCCT
CACCAGAAGCAGACGCTGGCACCGTGCTGCTTGTACAGCCTGCAGAGCCGTGAGCCAAGTAAACCTCTTTAATTA
CCCAGCCTCAGGTGCTCCGGGAACGCCTTCCGCGGAATGAAGCGGCCCATGCCCTTGTTGACGTTGATGTTTCCG
TCTTCAAAGACGATCTTGCCCTGGCTGATGACCACTAGTGGGGAGCCGTGGCACTCCATACCCCTCGAAGATGTTG
TACTCCACCGCCTGCACCAACAGCCTCAGCGTTACTTCCAGGATTTGCTCTGCCCCAAACGAGCTGTTTATAAC
AGCGATTTTGCTTAACATTATATCATAAGCGTGTTCCAATGTTTTTTTTTCTCTCTAAAAATACCTTTTATTGAC
TGTAATATTCCACTGTATGGTCCACAGTGTATATAACCAACAACCTACCGTTGCGCATGTAGGCTGCCGGTGGCT
TTCTATAATCAAATCAATATTGTTCTGGGGCATCACAAAGAGGAAGGGGGTCCCCXGGGGTTATGCAATGTGGC
TGCTTTGACTGTACTGGACATAAAAAATAAGTAAATGTTCTTCACTTAAATGTGTCTTTAAATAAAATT
TTTTTCTCTAGGTT

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FIGURE 1395

MARGGAACKSDARLLLGRDALRPAPALLAPAVLLGAALGLGLGLWLGCRAGRQRTRHQKDDTQNLLKNLESNAQT
PSETGSPSRRRKREVQMSKDKEAVDECEPPSNSNITAFALKAKVIYPINQKFRPLADGSSNPSLHENLKQAVLPH
QPVEASPSSSLGSLSQGEKDDCSSSSSVHSATSDDRFLSRTFLRVNAFPEVLACESVDVDLCIYSLHLKDLLHLD
TALRQEKHMMFIQIFKMCLLDLLPKKKSDDELYQKILSKQEKDLEEELEKGLQVKLSNTEMSGAGDSEYITLADVE
KKEREYSEQLIDNMEAFWKQMANIQHFLVDQFKCSSSKARQLMMTLTERMIAAEGLLCDSQELQALDALERTMGR
AHMAKVIEFLKLQVQEETRCRLAAISHGLELLAGEGKLSGRQKEELLTQQHKAFWQEAERFSREFVQRGKDLVTA
SLAHQVEGTAKLTLAQEEEQRSFLAEAQPTADPEKFLEAFHEVLERQRLMQCDLEEEENVRATEAVVALCQELYF
STVDTFQKFVDALFLQTLPGMTGLPPEECDYLQEVQENAAWQLGKSNRFRQQWKLQELLEQDQQVWMEECAL
SSVLQTHLREDHEGTIRGVLGRGLGGLTEESTRCVLQGHDLRLRSALRRALRGNALATLTQMRLSGKKHLLQELR
EQRALEQGSSQCLDEHQWQLLRALEARVLEEASRLIEEAQQTRLQQLQRLLAEAQEVGQLLQQHMECAIGQALLV
HARNAATKSRAKDRDDFKRTLMEAAVESVYVTSAGVSRLVQAYYQQIGRIMEDHEERKLQHLKTLQGERMENYKL
RKKQELSNPSSGSRTAGGAHETSQAVHQRMLSQQKRFLAQFPVHQQMRLLHAQQQQAGVMDLLEAQLETQLQEAEO
NFI SELAALARVPLAESKLLPAKRGLLEKPLRTKRKKPLPQERGD LGVPNNEDLASGDQTSGLSLSKRLSQESE
AGDSGNSKKMLKRRSNL

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FIGURE 1396

CCGATCCGGGCGGTGCTGGCAGCCGGAGCGGGCGGGCGGGCCGAGCAGCCGGGGCAGCCGCGCGTGGGCATCC
ACGGGCGCCGAGCCTCCGTCCGTGTCTCTATCCCTCCCGGGCCTTTGTTCAGCGCGCCCGCTGGGAGCGGGGCCGA
GAGCGCCGGTTCCAGTCAGACAGCCCCGAGGTCAGCGGCCGGGCCGAGGGCGCCAGAGGGGGCCATGTCGTACC
AGGGCAAGAAGAGCATCCCGCACATCACGAGTGACCGACTCCTCATCAAAGGTGGACGGATCATCAACGATGACC
AATCCCTTTATGCTGACGTCTACCTGGAGGATGGACTTATCAAACAAATAGGAGAGAACTTAATCGTTCCTGGTG
GAGTGAAGACCATTGAAGCCAACGGGCGGATGGTTATCCCGGAGGTATTGATGTCAACACGTACCTGCAGAAGC
CCTCCCAGGGGATGACTGCGGCTGATGACTTCTTCCAAGGGACCAGGGCGGCACTGGTGGGCGGGACCACGATGA
TCATTGACCATGTTGTTCTGAACCTGGGTCCAGCCTACTGACCTCTTTCGAGAAGTGGCACGAAGCAGCTGACA
CCAAATCCTGCTGTGATTACTCCCTCCACGTGGACATCACAAGCTGGTACGATGGCGTTCCGGGAGGAGCTGGAGG
TGCTGGTGCAGGACAAAGGCGTCAATTCCCTTCCAAGTCTACATGGCCTATAAGGATGTCTACCAAATGTCCGACA
GCCAGCTCTATGAAGCCTTTACCTTCCCTTAAGGGCCTGGGAGCTGTGATCTTGGTCCATGCAGAAAATGGAGATT
TGATAGCTCAGGAACAAAAGCGGATCCTGGAGATGGGCATCACGGGTCCCGAGGGCCATGCCCTGAGCAGACCTG
AAGAGCTGGAGGCCGAGGCGGTGTTCCGGGCCATCACCATTGCGGGCCGGATCAACTGCCCTGTGTACATCACCA
AGGTATGAGCAAGAGTGCAGCCGACATCATCGCTCTGGCCAGGAAGAAAGGGCCCCCTAGTTTTTGGAGAGCCCCA
TTGCCGCCAGCCTGGGGACCGATGGCACCCATTACTGGAGCAAGAACTGGGCCAAGGCTGCGGCGTTTCGTGACTT
CCCCTCCCCTGAGCCCGGACCCTACCACGCCCCGACTACTTGACCTCCCTACTGGCCTGTGGGGACTTGCAGGTCA
CAGGCAGCGGCCACTGTCCCTACAGCACTGCCCAGAAGGCGGTGGGCAAGGACAACCTTTACCCTGATCCCCGAGG
GTGTCAACGGGATAGAGGAGCGGATGACGGTCGTCTGGGACAAGGCGGTGGCTACTGGCAAAAATGGATGAGAACC
AGTTTGTCTGCTGTCAACAGCACCAATGCAGCCAAGATCTTTAACCTGTACCCAAGGAAAGGGCGGATTGCCGTGG
GCTCGGATGCCGACGTGGTCATCTGGGACCCCGACAAGTTGAAGACCATAACAGCCAAAAGTCACAAGTCGGCGG
TGGAGTACAACATCTTCGAGGGTATGGAGTGCCACGGCTCCCCACTAGTGGTCATCAGCCAGGGCAAGATCGTCT
TTGAAGACGGAAACATCAACGTCAACAAGGGCATGGGCCGCTTCATTCCGCGGAAGGCGTTCCCGGAGCACCTGT
ACCAGCGCGTCAAAATCAGGAATAAGGTTTTTGGATTGCAAGGGGTTTTCCAGGGGCATGTATGACGGTCCTGTGT
ACGAGGTACCAGCTACACCCAAATATGCAACTCCCGCTCCTTCAGCCAAATCTTCGCCTTCTAAACACCAGCCCC
CACCCATCAGAAACCTCCACCAGTCCAACCTCAGCTTATCAGGTGCCAGATAGATGACAACAATCCCAGGCGCA
CCGGCCACCGCATCGTGGCGCCCCCTGGTGGCCGCTCCAACATCACCAGCCTCGGTGTAACGTGGATGCGCGGAG
GAGCTAGCCTGAAGGATTCTGGGAATCATGTCCATCCCTTTTCTGTCTAGTGTCTTTGAAACCCACAGTTTTAGT
TGGTGTCTGATGGAGGGAGGGGGAAGTCGAAGGATGCTCTTTCCCTTTTCTGTTTAGGAAGAAGTGGTACTAGTGT
GGTGTGTTTTGCTTGGAAATTCCTTGCCCCACAGTTGTGTTTCATGCTGAATCCACCTCGGAGCATGGTGTTCAT
TCCCCCTTCTAGTGAACCACAGGTTTTAGCATTGCTTGTCTGTCCCTTCCACTTCTAACTCCACTGGCTCCA
TGATTCTCTGAGTGGTGGTTCCCTTTGCACCCTGTAGATGTTCTAGGATAGTTGATGCATGTTACTAAATTACGTA
TGCAAGTCTGTGAGTGCGTCTGAGGGGACATCGCCAAGGACTGACTGAGACACGATGCCGAGACCTCAAGCCCTG
AGGGGCAGTCCCAAAACCTTACAGTGAAGATGTTTACTCATTGCCCCACCTCTGGTCCACACTAGAAAGAAGC
TCGCCCCACCTCCACCTGTGAGATCCGTGAATTCTCGGAATGGCAGGGGAAGCCTTGCACTAGGTTGCAGAGAAG
CATCTCCACATCCTGTGTGTCAGAAACCTGGTCTCCGTGGCACTTGTAACCTACCGTGCTGTCTTCTGGTCTGTG
TGTGTTCTTCAAGCCAGCTCTAGGCTTCAGGCCGAGCCAGGTTACACTCAGAAAGAGGTCTCCCCATCCCCATT
CGGGGCTGACGATGGGGGGCTGATGGCTGCCCTGCGTGGCCTGAGTCTGGTCCCTCTGAGGCAGTTGACGGGG
CAGTCAGATTTTTTAAAGTTTTGTACAAAGTTTTCTTTGTAATCACTCCCATTTTTTACTTAACAACCAACTTGTT
GTGGCTCTTATTTCTGAATTCAAAGCTTGTGAAAAAATAAAGAAAATGAACTGCCCACTGAAAAAAAAAAAAAA
AAA

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FIGURE 1397

MSYQGKKSIPHITSDRLLIKGGRIINDDQSLYADVLEDGLIKQIGENLIVPGGVKTIEANGRMVIPGGIDVNTY
LQKPSQGMTAADDFFQGTRAALVGGTTMIIDHVVPEPGSSLLTSFEKWHEAADTKSCCDYSLHVDITSWYDGVRE
ELEVLVQDKGVNSFQVYMAYKDVYQMSDSQLYEFTFLKGLGAVILVHAENGDLIAQEQKRILEMGITGPEGHAL
SRPEELEAEAVFRAITTIAGRINCPVYITKVMSKSAADI IALARKKGPLVFGEPIAASLGTGTHYWSKNWAKAAA
FVTSPPLSPDETTTPDYLTSLACGDLQVTGSGHCPYSTAQKAVGKDNFTLIPEGVNGIEERMTVVWDKAVATGKM
DENQFVAVTSTNAAKIFNLYPRKGRIAVGSDADVVIWDPDKLKTITAKSHKSAVEYNIFEGMECHGSPLVVISQG
KIVFEDGNINVNKGMGRFIPRKAFPEHLYQRVKIRNKVFGLOQVSRGMYDGPVYEVPA TP KYATPAPSAKSSPSK
HQPPP I RN LHQSNFSLSGAQIDDNNPRRTGHRIVAPPGGRSNITSLG

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FIGURE 1398A

TTTCTCCTTGGACCAAGATGACTGATGGAAAACCTCTCCACCTCTACAAATGGCGTAGCCTTCATGGGTATTCTGG
ATGGTCGACCAGGAAACCCCTTCAGAACCTGCAACACGTCAATCTCAAGGCGCCCCGACTCCTCTCCGCGCCTG
AGTACGGGCCCAAGCTGAACTCAGGGCTTTAGAAGACCGGCACAGCCTCCAGTCCGTGGACTCGGGGATTCTTA
CCCTGGAGATCGGGAACCCGGAGCCTGTACCCTGCAGCGCGGTCCACGTGAGGAGGAAGCAGTCCGACTCCGACC
TCATCCCCGAGCGGGCCTTCCAGAGCGCCTGCGCGCTGCCATCCTGTGCGCCACCAGCTCCTAGCAGCACCGAGC
GGGAACAGAGCGTGCCAAATCCTCCACGTTTCCCAGGACAGGCTATGACTCGGTAAAGCTCTATAGCCCCGACCT
CCAAAGCCCTGACCCGCAGCGATGATGTCTCCGTCTGCAGCGTGTCCAGTCTTGGGACAGAGCTGTCCACCACGC
TGTCGGTCAGCAATGAGGACATCTTGGACCTTGTGGTCACGAGCAGCTCCAGTGCCATTGTGACCCTGGAGAATG
ACGATGACCCACAGTTTACCAACGTACCTTGAGCTCTATCAAGGAAACCCGTGGCTTACACCAGCAGGACTGTG
TTCATGAAGCTGAGGAGGGGAGTAAATTGAAAATATTGGGGCCATTTAGTAACCTTCTTTGCAAGGAACCTTGCTTG
CTAGAAAACAAAGTGCAAGGCTTGACAAACACAATGACTTGGGATGGAAGTTATTTGGGAAAGCGCCACTCCGAG
AGAATGCCCAGAAGGATTCAAAGAGAATACAGAAGGAATATGAAGACAAGGCTGGAAGACCTAGCAAGCCACCCCT
CTCCAAAGCAGAATGTGAGGAAGAATCTTGACTTTGAACCACTTCCACCACCGCACTCATCCTCGAGGACAGAC
CAGCAAATCTCCCAGCAAACACAGCTGAAGAAGCTCAGAAGCACAGACAGCAGTATGAAGAAATGGTGGTTTCAGG
CCAAAAGCGAGAGCTGAAAGAAGCCCAGCGAAGGAAGAAGCAGCTGGAAGAAAGATGCAGAGTCGAGGAAAGCA
TTGGAACGCTGTGCTCACCTGGAATAATGAGATCTTACCTAACTGGGAAACAATGTGGTGCTCTAGAAAAGTTC
GAGATTTATGGTGGCAGGGAATCCCTCCAAGTGTGAGAGGCAAAGTCTGGAGCTTAGCCATTGGCAACGAGTTAA
ATATCACCCACGAGCTCTTTGACATCTGTCTTGCCCGAGCCAAGGAGAGGTGGCGGTCCCTTAGCACAGGAGGCT
CTGAAGTGGAGAACGAAGATGCTGGTTTTTCAGCAGCAGACAGAGAAGCCAGTCTGGAGCTTATTAACTGGACA
TTTCTAGAACATTTCTTAATCTCTGCATTTTCCAGCAAGGTGGTCCATATCATGACATGTTGCACAGTATTTTGG
GCGCTTATACCTTGTTACCGGCCAGATGTGGGTTATGTCCAGGGCATGTCCTTCATAGCAGCAGTGTGATCTTGA
ACTTAGATACTGCAGATGCCTTTATTGCCTTTTCTAACCTTCTGAATAAACCCCTGTCAAATGGCGTTTTTTAGAG
TGGACCATGGCCTTATGTTGACTTATTTTGTCTGCATTTGAAGTATTCTTTGAAGAAAATTTGCCGAAATTATTTG
CGCATTTCAAGAAGAACAACCTAACTCCAGATATCTACCTAATTGATTGGATCTTTACCTTATATAGTAAATCTC
TGCCCCCTCGACCTGGCCTGTCTGATCTGGGACGTGTTCTGTGCGGATGGGGAAGAGTTCCTGTTCCGCACGGCCC
TGGGCATCCTGAAGCTGTTTCGAGGACATCCTGACCAAGATGGACTTCATTCACATGGCCCAGTTCCTGACCCGGC
TGCCCGAGGACCTGCCCGCCGAGGAGCTGTTTGCTCCATCGCCACGATCCAGATGCAGAGCCGAAACAAGAAGT
GGGCTCAGGTACTGACTGCATTGCAGAAAGACAGCCGGGAAATGGAGAAGGGAAGTCCGTCCTCCGACACTGAG
GCTGCAGCGGGAATTCGCACTCGGCACCAATCAGAGCCCCATGCCGCGGCCCTCTGTTGTTTCAGACTGACACC
CGGGCAGCCGAGAAGAACAGACGCTCTTTAAGTTTGATTCTTAACACTGGAGTTGGCCTTAAACAAAACAAACAC
AAAACTTTTTAAAGAATTAACCAAGGCTTAGCCTTAAGCAGCTCAGTGAAGGATGAGCTGCTGCGGACCACAG
CCAGCCACTGCATCTGCTGCACAGTTGAACGATGGGCAGTGGCTCACCCCCACTCCTTTATTTTCAGCAAAAGCTA
ATTAAATTGTAATGTTTCTATGTCAACTACTGGGAAGTATGTTACAGTCTTAGCCAGGATGCATGAGAGATGTTA
TTTGGGAGACTTGAGATGCTTTGGCTGATATTTACATGTTTTTCGATAAGAAAGGGATCGCTGATTGAGTTATTGA
GATAGTTTTTCCAGAGCTGGAGGTCACGTTTCTAAACTCACCTACGAAAGATAGCATTAAAGGAACAGGGGCTC
TCTGAGGATGGCCACTGATGTGTGTTTGTGGATACCTGGGCATCGACCCAGCCTGCAGGTGAGCTCTGGGCCATG
TTGCCCTTGACACAGTCACAGTGTAGAGGCTGCAGGTGCACACGTGGGCTCCAGTGGGACTGCGCTCTGGGAGACT
GCTCCCTGGCATCGGTCTGCGGAGGTGGAAAGTTCGAGAGGAGGAGCTATTTGCGAGGAAGCCCTGTGGCAATA
GAGATAGGCTTAAAAGCGGAGAGAACACAGAGTGAATCAGCCCCCTGTAAGTAAAAGGGTAGAGAAAGAGATGT
GTGGCTGGGCCCTCTCCACCTGCCTGTTTCAGTGGAGGCCAGGGCAGCAGCCAGAACAGCACATGTGGGGGAGG
TGGCCCCCTTGTGCCAGCAGTGGCTCCTCTCTGCCTTTGAGCCCTGCACAGCTGGACCCATCCTAAGTGCCAGTGA
GTCCCTCACACATTTGACTTTAGAACGTGTGCTTCATGACCCGTTGTACAGACGGAGGAGCGAGCAACACACGTC
TAACAGCCTAGACAATCTCGTCAGATGCTCATACTGGACCATCAGCCTCCCCATTTAGCTGACTTTCCCAGGGT
CGTTGGCAAATTTTTGTTCTGTCTTTTCTTGACTAATTGTAGAATTTGTGTGAGGACTTTGGTTATCCAAAA
TCACAGAAATGAACCGTTTTGTCAGCTGCGCAGTCTAAAGGGCAGGCCAGTGTCTGGAAGCAGGGCCCACGTGGCG
GTCCGCTGGCAGGCTGGTCTGGGGAGCATTCTGCGGACCCGGTCACGGGCTTGGTTAGTCATGCGTACATGTGT
GCCTTGGGGTGCTCTGCACTCCACGGCCCTTCTCAGCCACACTTCCCACCCAGGGGGTGCCCCAGGCTGATCT
CAATTCTGATGTTGAGGGCTGTTTGGCTCTGTCTGTATAGCTTGTAACAGGAGCCTTGGGCTAGGGGCTGGGGAA

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FIGURE 1398B

GGAAAGCCGAGCTGGCATTTCGTTCTCTGGACTTTTTATGCCTGCCATAACCGCTAATGCTCCTCGAGGTGCAGGA
GCAGGTTGCTGAGCCAGTGGCTGCCCCGTGCCCTCCTTCCCAGCACTATCATGTGTCACGTTTCCCGGACTCTGC
CCCTACATCTCAGCTGAATCTCCAGGGAGGCTGCAGAGCATCGTGGAGACCACCTTCTGCCTCGGCCTTTAAATG
CTGACTCACCTCCTCTCGGAGGAGGCGTCCTGTCTTCACGGGGGGGTCCCGGTGGCCTCCAGACGTAGCCATTTT
CTGACATCAAGATGTTGAATGTAATCTGGTCTGAGCTGGGCCTGTGGGAGGGGCCGCTGAGGCCTGTGCGCTGT
TGTCCTCGCAGATGTACTTATTTTTGTTCATGATACGGGCGTTCCGTTCCCTTAAAGATGTATATATTTTCTTACT
GTACATAAAGATGTTCCCTTAAGTCGTACAGAAGGTGGCGCGGCAAAGGGCCTCGTGCAGTGTGTTTCAATTGCCC
CTGGGGATCTTCTGTGTCTTCAGCGCCCAGCCCTGCGTGTTTCTGGTGAAGCAGTTTCACATCAGTCTCTCCAGA
TAGCACTACGATGTATTCCGCTTCTGAACAGGATCCCATGCCAGTGTGGAACACCTTCCCAATCTTAGTTTCAAG
GTGGCTTGATGACCTGTTTCAAGGGTCACATGAGGTCTCGCCAGTTTCCCTGGGTCTTCTCAGAGGCCAGAAAGT
TCTAAGTTCTGAGTCCCCGGCCAGGGTCCCTTAACACCTCGGCACAGAGGCTGTTGGCAAGTGTAGAGGCTGCCT
CTGTGTGTGGTTTAAAGTAACTGGAAATGAGACATTGACGTGCTGCTCCTCCAGAGGTCTGCACACTCCACTTCA
CATGCCGTTGACTCTCACAGTCTAAGACTTCAGGGCCGGGACCTTTGTCCAGCCTGCACAGTAGAGTGAGGCTGC
CTCTCCCGCCAGGCATTGGGATCCCATTTAGAAACGGCATTCACTTCAGAAGGTACTTTTTAACTGCTCAGTTTT
TGACTATTTTAAATAGTTTGCTGAAAACCTCCTGATAACACTTGCTACATATCATGTTTTAATTGCTTGTACAGTT
AACCTTTAATTTTATTTAGTAAAGTGATCAAAGTAGGACTTTTTTGAATTGTAAATAGGTGGTTTTATTAAATA
AAAGTCAATGTAAAATTGTT

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FIGURE 1399

MTDGKLSTSTNGVAFMGILDGRPGNPLQNLQHVNLKAPRLLSAPEYGPKLKLRALEDRLSLQSVDSGIPTLEIGN
PEPVPCSAVHVRRKQSDSDLIPERAFQSACALPSCAPPAPSSTEREQSVRKSSTFPRTGYDSVKLYSPTSKALTR
SDDVSVCSVSSLGTELSTTSLSVSNEDILDLVVTSSSSAIVTLENDDDPQFTNVTLSSIKETRGLHQQDCVHEAEE
GSKLKILGPFNSNFFARNLLARKQSARLDKHNDLGWKLF GKAPLRENAQKDSKRIQKEYEDKAGRPSKPPSPKQNV
RKNLDFEPLSTTALILEDRPANLPAPKPAEEAQKHRQQYEEMVVQAKKRELKEAQRKKQLEERCERVEESIGNAVL
TWNNEILPNWETMWCSRKVRDLWWQGIPPSVRGKVWSLAIGNELNITHELFDICLARAHERWRSLSLSTGGSEVENE
DAGFSAADREASLELIKLDISRTFPNLCIFQQGGPYHMLHSILGAYTCYRPDVG YVQGM SFIAAVLIILNLD TAD
AFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFF EENLPKLF AHFKNNLTPDIYLI DWIFTLYSKSLPLDLA
CRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFIHMAQFLTRLPEDLPAEELFASIATIQMSRNKKWAQVLT
ALQKDSREMEKGSPSLRH

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FIGURE 1400

GCTATGCGGGTGGACATCACGCTGCTATTCCGGGCCAGCGTCAAGACCGTGAAGACGCGGAACAAGGCGCTGGGA
GTGGCGGTGGGCGGCGGGGTCGATGGCAGCCGGGACGAGCTGTTCCGCCGAGCCCCCGGCCCAAGGGCGACTTC
TCCAGCCGGGCCCCGCGAAGTGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTAT
ATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGAT
GCCAGATATTTCATGAGGACCTGTTTCAGAAGCAATTGAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCC
CAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTAC
TCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAAAT
ACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAAGACTCTGAAGAAAACCCCTGCC
ACTGAAGAACGTCCAGAAAAAATTTTGGCTGAAACACAACCTGAATTGGGAACGTGGGGAGATGGCAAAGGCGAA
GATGAGTTATCCCCAGAAGAAATACAAATGTTTGAACAGGAAAATCAGCGACTAATTGGTGAAATGAACAGCTTG
TTTGATGAAGTGAGGCAAATCGAAGGGAGAGTGGTTGAGATTTCCAGACTCCAAGAGATATTCACGGAAGGTT
TTGCAACAGGAAGCTGAGATTGACAGCATTACCAAGTTAGTTGTGGGGGCAACTGAAAATATCAAGGAAGGCAAC
GAAGACATAAGAGAGGCCATTAAAAACAACGCTGGCTTCCGCGTGTGGATCCTCTTCTTCTCCTCGTGATGTGCTCC
TTCTCCTTGCTCTTCTCGACTGGTACGACAGCTAGCCAGGGCCACGGGGGCCCAGCACGAGAGTCCTCATGGGC
ACTCACAGACTGCGTGCTTTCATGTACTTCCAGTGCTGGAGCATGGTATGACCAGATTTTATCACAGTGCCATTT
GAAGGGAAAGGAGTTCAGACAGACAGACGTATTCCCCAAAAGGGATACCCCAGGCCGATGGTGTTTCAGCCATTT
AGCAGCTGAAAAAGGAAACAGTGACACCAATGGGAGGCAGCCTGCGTAGCCCTCATCAGGCAAGACAGACTGAA
TGCAGGAGTGGGTGATTAGCTGCTCCTTGAACCTGAGGCTGCCTTGGCAGCAGGGGACAGCAGGCCTCAAGAGC
CCCTAATTGTCTCAGGGTTCAAAGGAAGACACTGACCTTTCCCATCCCGGTAGCTTCAGGGAAGATCATAGTTAA
TAACGTCTCTCAACAAATGATTACTTCTTTGTTTCCTTGTGGCTTCTTGTCTGTCTGAGTCAACGAATACACAGA
CTTACTGGATTATAGAAGAGAAAAATTCACATCTGCCTTGTTAATCTAATAAATATAATTACAGCCCCTTAAAAA
AAAAA

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FIGURE 1401

MAVDITLLFRASVKTVKTRNKALGVAVGGGVDGSRDELFRSPRPGDFSSRAREVISHIGKLRDFLLEHRKDYI
NAYSHTMSEYGRMTDTERDQIDQDAQIFMRTCSEAIQQLRTEAHKEIHSQQVKEHRTAVLDFIEDYLKRVCKLYS
EQRAIRVKRVVDKKRLSKLEPEPNTKTRESTSSEKVSQSPSKDSEENPATEERPEKILAETQPELGTWGDGKGED
ELSPEEIQMFEQENQRLIGEMNSLFDEVQRQIEGRVVEISRLQEIFTEKVLQQEAEIDSIHQLVVGATENIKEGNE
DIREAIKNNAGFRVWILFFLVMCSFSLFLDWYDS

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FIGURE 1402

AGCTTAGAGGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGATATTTTGCAGAAGACGTGCTGTATT
GCCCAGAAGCCATCGTGTCACTGGTCGGGGTCCCTGCGGAGGCTGGCTGCCTGCCGGGAGCACAAGCAGGCTCCTG
AGGTCTACCTGGCCTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTACCACCGAGCTAGGCTGGACTGGGA
TCAGATGGGAAGTGGGAAGCTCATCATGACCAGAACTGTTTCCCTACAGAGAGCACTTGGAGATGGCAATGCTGA
ACCTCACACTGTAGGACTCACACACGACTCCAACGGGCTTGTGAGAATTAAGTCACTCTCGTGGGAAGAATTTTT
ATATGGGAAAGCGGATAAACTTTTCATTGCACTGGAATGTTTGGAAAATGTTAAATTCCAAATCAGGAACCACAA
ACTGCCCTCTAATAAGACATTGGCTATCTAAGCATGTGGGTGCCCCCTTCTGCCAGCAGTTCTGGTTCTTAAGA
AAATCACCATAAATCAGACATGAAAATTCTGGCTCCAAAAATAGCATTTTCTTTGTGCAAATAAAAACGAGTGTA
TCAAGTATGACGTTCCCCAACGTGGACACACTTGTTTCCCTCAGAAAGCCAAACCTGCTGCAGCTGCCACATCCC
TGGACACACTCGTTTCCCTCACAAAGCCAAGCCCGCTACAGCTGCCACATCCCTGGACACACTCGGTTCCCTACAA
AGCCAAGCCCGCTGCAGCTGCCACATTCTGGGCTTATGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAAG
TGTAAGGAACATGGCAGAAAGGTGACACCTGGAGACCAAATGCAGGATGAGGAGTACTGCAGAGGTACAGGGAA
GTCACAGAACAGTAATACGCTGGCAGGGGCATGGGGCATGAAGAACAGAAGAAGACATTTGAGAAAAGCATCTGC
AAAACTACTAAAGAGCAGAGCTTACCTCATTTTCTGTCCCCACCCCATCCCAGGTCACCACCTGGCTGACCCCAGG
TCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTTACCTGGACTTGAGACCCTTCACACCCCAGCAG
TGCTCCGCCTCCAACCTTGACATCATGCTTTCTGGAAACTTCCCCGTGTGTCCCACTTTCCACACTTGGTGCCT
GGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGAGCACCTCCTCTCGGCCTCTGGCCAACACAGTC
CCACCCATCTGTGGGTAAACAAGGGGGTGTGGGTGTTCTTTTCAGCCTTGCTAAACTGTCTGAATCAAGGATCACA
AACTACAGCCTTCAGGCCAAATCCAGCCCACAGCCTGTGTTTGTAATAAAGCTTTATTGGAACAAAGCCACACC
CCTTAATCTACAGATGATCTGTGGCTACTTTTACGCCACAACAGAGTACCATGGTTCTGACAGAGACTGGGGGAC
CCAGTCTAAATGACTTCCGACCTGGACCTTTACTGAAAATCCTCCAATCATTCTGTTGACAAGAATGATGTATT
ACTTTTTGCAATAAGAAACAAGTAACATTTGCAGAATTCCACCCATCTTTCAAGGCTGGTCCCAGAAGTTCCCTT
TGCCACACACCTACCTGATCCTGACAACTTCTTAACTGCAGCCCTGCCACCCGGCTCCAGCATCATTTGTGG
AGTGTGAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCTTAACATTCCCGAGCCTACTGTACCGAAACGGG
ACAGCAGAGTAGGCCAGCATCTGTGACTTCTGCTCCCTCACTAGCTTTTCCACCAGACCCACATGTTACCACCC
TGGCTGTGGGAAGCAGGGATCAGGGAGTGTGGCTCGGTGCCCGTCTCCAGAACCCTGCCACCCCTGGCGTGGTG
CAGACATGTTTACCTGCAGCTGAGCTGCCAGTTCTCTGAGTCTCAAAGACCAGGCCGTTTTCTTCATGTTTCA
CTAGCTCATGTAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACACCAGACCCCTGGGGTG
CCCAGCTTGCTTCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGAACAGGGGGTGTGGTTTCTGGGAGCT
GGTTCTTAGATTTGGCATCTGAAGCATATAAAGGTCTGGGGGAGTGCACATCAAATGGCCAAATCAATTTGAGG
AGGGAGCCTTAAGGAAGTTTGTACGTTCTGTGCTGGATGCTCTTCAAGTACTGAAGAATTATTTTGCATGTTT
TTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCACATAAAAGATGACTTTT
CTAGGACACC

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FIGURE 1403

MAPEENAGTELWLQGFERRFLAARSLRSFPWQSLEAKLRDSSDSELLRDILQKTVKHPVCVKHPPSVKYARCFLS
ELIKKHEAVHTEPLDELYEVLAEATLMAKESTQGHRSYLLPSGGSFTLSEITAIISHGTTGLVTWDATLYLAEWAI
ENPAAFTNRGBVLELGSGAGLTGLAICKMCRPQAYIFSDCHSRVLEQLRGNVLLNGLSLEADITANLDAPG

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FIGURE 1404

TTGTCCGTGGCTTCTCTGAGAAGAAAAGTTGAAAAAGGGTAAAAAGTTTTTCAGGAATATTCGGGCTCTCTATTGCT
AAGCATAGCGAGTGTTCGGTTTTCTCTCTCCAACAGACATCGCTATTGCGGTTCCGAGGCAGTGGGAAGAGATGCG
GCCCCTGGACATCGTCGAGCTGGCGGAACCGGAGGAAGTGGAGGTGCTGGAGCCCCGAGGAGGATTTTCGAGCAGTT
TCTGCTCCCGGTTCATCAACGAGATGCGCGAGGACATCGCGTCTGCTGACGCGCGAGCACGGGGCGGGCGTACCTGCG
GAACCGGAGCAAGCTGTGGGAGATGGACAATATGCTCATCCAGATCAAAACGCAGGTGGAGGCCTCGGAGGAGAG
CGCCCTCAACCACCTCCAGAACCCGGGCGACGCGGCCGAGGGCCGGGCGGCCAAGAGGTGCGAGAAGGCCGAGGA
GAAGGCCAAGGAGATTGCGAAGATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTC
GTGAGCGCGGTTCGGCGTTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCTGGAGAAGCC
GAAACCAGAGAGCCTTTTGTCTCTTTTTCTGTCTATGCTCTGTCTCACTTAACACTACGTTTTCTGCTAT
GGTCTGTGGTTGATGACCTCAATATGAGTTTCGATTGTTAACGTGTTTTTGTGGGAAGTAATTTTGTGTTGAAA
ATGCTCTCACATACAGGAATTAGGGCCTAGATTGTAAGCTCTTGACGAGTCACATTTGTTCCCGGGCTTTGGTG
GTTATTTCTAAATTTTGAGGTGCTTTGCTATTTCTTGTGTGACCTGATAGCTCCCTGGAACCTTTGGGTCTGTGT
GTGACACATGAGACTCACAGTTGGAGTTCTCCAGCTCTGGAGGTGCTGAAGGAGCTGCATTAATTCTGGAAGACG
ACTCCATGCAGCAACTACTGAAGAAAGGACCAGACTTCAACGGGGAGTGTGGATGGGCCGACCTGGCTGGGACTC
GTGAATCTGGAGAAGAGCTGGAGAATGGATAGTATTGTCTGTATTTGGAGACTTTAATTTCTGTGTGAGACCAA
GGAGGAGAGATGTGTTTTGTTCAAAATTTAAATTTGTTGTGGTACACTATCTTATGTAACCTGCTGGTGAGTTT
GTTTGGACAACCTAACTCAGCTTTATTTGACATGGAACCTAAAATAGAAGATAAGATCTTGATATTCTGTACAAG
TTGATGTAATAACCTGATGCGTTTTAGAGGACTTGGCATAAAATGAAAGATTGGCAAAGGCCCTTGAGGGGCTTG
GGGATGACAGTATGGAACCTGTCTGCATTGGACCCTAACTGGACTAGAAGAGGCATCTTCAAGGTTTCATACGTTG
TCCAGCTGTAAGTTTCAATTTGAGTAGCAGACCTAACAAATATTTGAGGTCAGAACCCTACCATGTTAAACAAACA
AAACTTACCATGTTAATAAAAAGTATTCATTGCG

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FIGURE 1405

MRPLDIVELAEPEEVEVLEPEEDFEQFLLPVINEMREDIASLTREHGRAYLRNRSKLWEMDNMLIQIKTQVEASE
ESALNHLQNP GDAAEGRAAKRCEKAEEKAKEIAKMAEMLVELVRRIEKSESS

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FIGURE 1406

GTGGGGCAACCTGTTGCTAGTCTGGTCGTTGGTGACAGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCG
GCGTGCCCCGCGGGCTGGAAGAGGCGGCGGCGTGATCGGGCCCGTGACGCGGACGAGGCGCGGGAGCCCCGCGA
GGAGCCGGGCAGCCCGCTGAGCCCCGCGCCCGCGCGGAGAACTGGCCTCCCTGGAGCGCGAGCGCGC
CCGGGCGCACTGGCGGGCCCGCAGGAAGCTGCTGGAGATCCAGAGCCTGCTCGACGCCATCAAGAGTGAGGTGGA
GGCAGAGGAGCGGGGCGCCGGGCCCCAGCACCCCGCCGCGTGCGGAGGCTGAGGAGCGGGTGGCTCGGCTGTG
CGCCGAAGCAGAGAGGAAGGCTGCGGAGGCGGCGGGATGGGCAGGCGGATCGTGGAGCTGCACCAGCGGATCGC
CGGCTGCGAGTGCTGCTGAGCCGGCGAGGCCGCGCGGGTCTGGAGCGGAGCGCGGGGAGTGTCCCGCGTGGA
AGGCGCTGGGTAGGCAGGGAGGGGAGCGCAGAGCCGTGCCACGCTCTCCGCGGAGTTGGTTTTCATTCTTTTTTCA
TAGGTAATTAGAGAAAATAATTTGATATGTTGTTGTAAAGAGTCATGACCACTGGAAGTATTTTCAGGACGTAGA
CCTGGTGGGTCACTACGTGGGGGGAGAGAGGTGTGAAGCGGAGGTACATGCTGGAACGTGTGAATGTTGTTACG
AGATTGGAGCATTTCGATGACCTTCCTGCAGGTGGAAGCATTGTGCACAGGTGGTTGGGTTTGTGTTGACTCCCG
GATATGAGAATATCAAGCTCAAATTTATGTTGTGATGATGAATTTCTCCCACTTGTACTTTAGGTGGCCAACTG
ACGAAGTGTGTTACCTGATAAGGAGTCGTGGCTGCTTGGACAGGCTCAAACCAAGAGAGCCTTTCGTTTTGTCT
CCCCTGTTTTTCTGCCCTGCGTTTTCTCCACATTAGCCACTCAATTTCCAGTACCATCCTGGCGGATGACTTCAGC
ATTAGATGGTCAGGTGTATTTTTTTATTAATAGGCGCATTCAGTTTGGAAAAGACAGCTTTTCATTAATGTCCCA
CGTAAAGGAATATGGCCTATACAGTACGTACGCTGCTGCGTGGTCATATTTGTTCCCTGTGATCTTATTGTATTTT
CAAAGTTTGGAAGTATACTCGTGTGCTTTGCTGTTTTTTTATGCTTCCTGGAATTTGGGGACTCATGAGAGACTT
GAGGTTAGAGTTCTGCAAGTGAGAAGACACTACATGGTTGCAGCTGCCACATGAAGAACCCAAGCTCCTGTCAA
GTTGTGAATGCGACTTTGGATGAGATTAAGAAGGCCCAGTGGACGGTTGGTCTTGAAGAGTGGCAGTGTGTGGAT
TTGAGGACCTCTGCAGACCATCAGATCAAAGGAGGGAGAGCTGTTTGGGTGTTTTGTTTTTTTTTGTATATAG
CATTTTGCTTTTTCTTGGAATGTAATTTTCTATGGCATGTAACTGGTGCACATCGTGTAACTGTCTGGTGAG
CAACCTACAATTGGGATGAGTTCTAGGTACATGTGTTTGTGACTTTGGGGTAAACAACCTTTGTTATAATACAGT
CTCTGCCACAGATGCATGTGACCTCTTCAGGGGCCCCAGAGTGGCTGAGGAAGGAAAGCTTCAAGCTGGCCATGGG
GGTCCCCAACAGTCATTCCAGGCTTAGATGATGACTAGCCTAGGTCATCAGAGCCCAGACTCCACAGAGACTAAA
ATCAGAGCTCTGTCTTGTTATGATAAATTTCAATTTGCTTGGAAAAAGAAATGCTGAAAGCCAGTGTGTTAGAATCT
TTGTGCAGATGACCAAAGCAATTGACTTGCCCAAGAAAAGGTAAGGTAAATAAACATTTTTCAAATGAAAAAAA
AAAAAAAAAA

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FIGURE 1407

MRPVDADEAREPREEPGSPLSPAPRAGRENLASLERERARAHWRARRKLEIQSLLDAIKSEVEAEERGAPAP
RPRAEAEERVARLCAEAERKAAEAARMGRRIVELHQRIAGCECC

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FIGURE 1408

ATGACCCACACCGTGCAAGGCTTGGATGTGGCTGGTCTTCTGAAAGCACTTCCTCCCATTAAGCTTCATTCTGT
TCAGCAGAAACAGACGAGGACCGTCAGGAACACCTGGGAAGGAACGAGAATGGAAGAGCAGAGCAAGGGGCAAGG
CATACAGCCCTGCAGGGAACCCAGAAGGCAGCCATCCCTGACAGTGAGAGCAGCTCTTGTCTGGGAAGGCAGAT
GGGTCTGCCAGAAGCCTGGGCCTGGCCTTGTTGGCCTCACCGGCAAGCTCAAGCTTGCCCCCAGCTGCTGATC
AAGCAAGACATCGTGTCCCTTCTTAGCAACTTTGTACCAGGCTGTGCTTCCCAGAGCTGCTGTACCGCAGTTT
TTTGTGCAGGAGCCACAACACCTACCCATGCAGTCCATGGACTTCTCAGGTCTCTGGGGCCCCCTCCTGGCTGTG
GCCTCCCCCGGGCTGGGTTTCTGGTGGCCCTCTGGAGTGCAAGAGACCTGGACTGGGCCGACTGGACCGTCCCA
CACCTGACCAACTGCTTATGCCTCGCATGTGTACAACGTTAACAGAGTTATTTGTATATTTGGCCCACCAAGTT
AAAGAACCTCCTACAGATGTTACTCCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTT
GAGGCCCATACATTCTCAGGGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATT
CATTTTGATAGGGACCCACTTCAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTCGAACCTTTATTACTAGT
GACTCCCTGACTGGTATACCTGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAG
ATTAAGAAGATTCTTGGTATTTCTCGAATTATGTATGACTTAACATCAAAGCCCCCAGGAACTACTGAGTGGGAG
TAA

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FIGURE 1409

MTHTVQGLDVAGLLKALPPIKLSHSCSAETDEDROEHLGRNENGRAEQGARHTALQGTQKAAIPDSESSSCPGKAD
GSCQKPGPGLVGLTGKLLAPQLLIKQDIVSLLSNFVTRLCFPPELLSPQFFVQEPQHLPMSMDFSGLWGPLLAV
ASPGLGFLVALWSARDLDWADWTVPHPDQLLMPRMCHNVNRVICIFGPPVKEPPTDVTPTFLTTGVLSTLRQADF
EAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTFITSDSLTGIPATPGNEIPVEVVLKMTVE
IKKIPGISRIMYDLTSKPPGTTEWE

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FIGURE 1410

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGTGGCGGCGGGAAGATGCCGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAAATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTGGGAGTCAAAGAAA
ATAATAAAAAAGTCCAGCACTAGGGCCCCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACGCGAAAGAGGCACA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGCGCTCCAGCTCTTCTCAGCCTCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGCACATTGGGA
GACTCACCAGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAAATGATTGACA
TGCCCGTGGAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTGCGTAGAGTTTGAGAATCCAGATGAAGCTG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGTCTGCTGGCCCCCT
GGCCTAGGCCAACCCCCAGGAGATTACGCCCTCCAGGAGAATGTTGCCACCACCGCTATGTGGCTCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCCTCCCAATAAACAGGCCACTGAAGCTCTCGCCCCCTGTAAC
TATACGCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGCAAGACCAGTAGGAAAGCAAACCCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCTCCGGCTGCAGAAAGTGCTGTTGGCTTGGATG
CTGTGTGCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCACCCGTTTCCGGTTTTAAGAGTCAGTTCA
GTGGCAGAGCCACCAGGGACAAGTGAGGCTCTTGGGGGTGGTTTGACCCTGCTTACCTGGGAGCACACTTTTCCC
TTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGCTTTTTTGAAAGGGAGCT
GCCCCAGGCTTTAGTGACGCTGCCAACGCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACTTCAAGGGTCACA
GCCCCCAAAGATCCTCTCACCCTAGGTAGTTGCTGCTCATGGTTCTGTCTGTCCGTGCACCGATGCATACACCA
CACCACCCGCTGTACTCTGAAATTGGCGAGTGAGTTGAGAGCCAGCTCTGCGGGGTTCATCACGCAGCCATGGTT
GTGCTGTCTTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTGC
TTTTATTGTACAGTCAGTTCTATAAAATTTCTTTTTGAGTTTTATACCTTTGTAGCATTTTAGATGACATTGTG
TTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCCAAGATCGGAATGC

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FIGURE 1411

MDLSGVKKKSLLGVKENNNKKSSTRAPSPTRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRHSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSASSRSGSSSTSRSSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYACVEFENPDEAEKALKHMDG
GQIDGQEITATVVLAPWPRPTPRRFSPPRMLPPPPMWLRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSS
SNSSQ

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FIGURE 1412

CTCCACCCTGTGGGCTGTAAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCCTCCCTGGGACGGTTCC
GTGGGCAGCCCCATCACTGTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTTC
TCAGCTTAGGTCTGGACAGGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTAT
CTCTGACCTCCCGACAGGGGACACTCCCAGGCCAGCCAGGGGTCAGGGGCAGAGGTGCACACCTCAGCATGAGC
CAAGACTGGGGTCAGGGAGCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGTGGGGCCGGGGCCTTTCTGCCT
CATTTGCTTTCAATGAAAGCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTTCCTCGAGTTTGAATATCCAGAAT
CTTTTGTACTTCTTGTGGTTAAATTGTTTATTTTTGTAAAAATAAAATAAAATTAGTTAATAA

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FIGURE 1413

ATAGAAGACTACTCGGAGAGCGCTGCCTCTGGGTTGGCGGGCTGGCAGGCTGTAGCCGAGCGCGGGCAGGACTCG
TCCCCGCGAGGGTTCCAGAGCCATGGGAGCGGAAAGGAGGCTGCTGTGCGATTAAGGAGGCCTTTCGGCTGGCGCAG
CAGCCGCACCAGAACCAGGCGAAGCTGGTGGTGGCGCTGAGCCGCACCTACCGCACGATGGATGATAAGACAGTT
TTTCATGAGGAGTTCATTACCTTAAATATGTTATGGTGGTCTATAAACGTGAACCAGCTGTGGAGAGGGTA
ATAGAATTTGCAGCAAAGTTTGTTACCTCATTTACCAATCAGATATGGAAGATGATGAGGAAGAGGAAGATGGT
GGCCTTTTAAATTATTTGTTTACTTTTCTCTTAAAGTCTCATGAAGCAAACAGCAATGCAGTGAGATTTAGAGTG
TGCCTGCTCATAAACAAAGCTTTTGGGAAGTATGCCAGAAAATGCTCAGATTGATGATGATGTGTTTGATAAAATT
AATAAAGCCATGCTTATTAGATTGAAAGATAAGATTCCAAATGTGAGAATACAGGCAGTTCTGGCGCTTTCACGA
CTTCAGGATCCCAAGGATGATGAATGCCAGTGGTTAATGCATATGCTACTTTGATTGAAAATGATTCAAATCCA
GAAGTTAGACGGGCAGTGTTATCATGTATTGCACCATCAGCAAAGACTTTGCCAAAAATTGTAGGGCGCACCAAG
GATGTGAAAGAGGCTGTGAGAAAGCTGGCTTATCAGGTTTTAGCTGAAAAGGTTTCATATGAGAGCTATGTCCATT
GCTCAGAGAGTAATGCTCCTTCAACAAGGTCTTAATGACAGATCAGATGCTGTGAAACAAGCTATGCAGAAGCAT
CTTCTTCAAGGCTGGTTACGGTTCTCTGAAGGAAATATCTTAGAGTTGCTCCATCGGTTGGATGTAGAAAATTCT
TCTGAAGTGGCAGTCTCTGTCTCAATGCCTTGTTTTCAATAACTCCTCTCAGTGAACCTGGTGGGACTCTGTAAA
AACATGATGGCAGGAAATTGATTCCAGTGGAAACATTAACCTGAAATTGCTTTGTATTGGTGTGCCCTTTGT
GAATATTTGAAATCAAAGGAGATGAAGGTGAAGAATTTTAGAGCAGATTTTGCCAGAGCCTGTAGTATATGCA
GACTATTTATTGAGTTACATCCAGAGCATTCCAGTTGTTAATGAAGAACACAGAGGTGATTTTCTATATTGGA
AATTTGATGACAAAAGAATTCATAGGTCAACAATTGATTCTAATTATTAAGTCTTTGGATACCAGTGAAGAAGGA
GGAAGAAAAAACTGCTGGCTGTTTTACAGGAGATTCTATTTTACCCACAATCCCAATATCCCTGGTTTTCTTT
CTTGTTGAAAGACTACTCCACATCATTATAGATGATAATAAGAGAACACAAATTGTTACAGAAATTATCTCAGAG
ATTCGGGCGCCCATTGTTACTGTTGGTGTTAATAACGATCCAGCTGATGTAAGAAAGAAAGAACTCAAGATGGCT
GAAATAAAAGTTAAGCTTATCGAAGCCAAAGAAGCTTTGGAAAATTGCATTACCTTACAGGATTTTAATCGGGCA
TCAGAATTTAAAGAAGAAATAAAAGCATTAGAAGATGCCAGAATAAACCTTTTGAAAGAGACAGAGCAACTTGAA
ATTAAAGAAGTCCACATAGAGAAGAATGATGCTGAAACATTGCAGAAATGCTCTTATTTATGCTATGAACTGTTG
AAGCAGATGTCCATTTCAACAGGCTTAAGTGAACCATGAATGGAATCATCGAATCTTTGATTCTTCTCGGAATA
ATAAGTATTCATCTGTTGTAAGAAACCTGGCTGTTTTATGCTTGGGATGCTGTGGACTACAGAATCAGGATTTT
GCAAGGAAACACTTCGTATTACTATTGCAGGTTTTGCAAATTGATGATGTCACAATAAAAATAAGTGCTTTAAAG
GCAATCTTTGACCAACTGATGACGTTCCGGATTGAACCATTTAAACTAAAAAAATCAAAACACTTCATTGTGAA
GGTACAGAAATAAACAGTGATGATGAGCAAGAATCAAAGAAGTTGAAGAGACTGCTACAGCTAAGAATGTTCTG
AAACTCCTTTCTGATTTCTTAGATAGTGAGGTATCTGAACCTAGGACTGGAGCTGCAGAAGGACTAGCCAAGCTG
ATGTTCTCTGGGCTTTTGGTCAGCAGCAGGATTCTTTCTCGTCTTATTTTGTTATGGTACAATCCTGTGACTGAA
GAGGATGTTCAACTTCGACATTGCCTAGGCGTGTTCTTCCCGTGTTTGCTTATGCAAGCAGGACTAATCAGGAA
TGCTTTGAAGAAGCTTTTCTTCCAACCCTGCAAACACTGGCCAATGCCCTGCATCTTCTCCTTTAGCTGAAATT
GATATCACAAATGTTGCTGAGTTACTTGTAGATTTGACAAGACCAAGTGGATTAAATCCTCAGGCCAAGACTTCC
CAAGATTATCAGGCCTTAACAGTACATGACAATTTGGCTATGAAAATTTGCAATGAGATCTTAACAAGTCCGTGC
TCGCCAGAAATTCGAGTCTATACAAAAGCCTTGAGTTCTTTAGAACTCAGTAGCCATCTTGCAAAAGATCTTCTG
GTTCTATTGAATGAGATTCTGGAGCAAGTAAAAGATAGGACATGTCTGAGAGCTTTGGAGAAAATCAAGATTCAG
TTAGAAAAAGGAAATAAAGAATTTGGTGACCAAGCTGAAGCAGCACAGGATGCCACCTTGACTACAACACTACTTC
CAAAATGAAGATGAAAAGAATAAAGAAGTATATATGACTCCACTCAGGGGTGTAAAAGCAACCCAAGCATCAAAG
TCTACTCAGCTAAAGACTAACAGAGGACAGAGAAAAGTGACAGTTTCAGCTAGGACGAACAGGAGGTGTCAGACT
GCTGAAGCCGACTCTGAAAGTGATCATGAAGTTCCAGAACCAGAATCAGAAATGAAGATGAGACTACCAAGACGA
GCCAAAACCGCAGCACTAGAAAAAGTAACTTAACTTGCCCAATTTCTCAATGAAGATCTAAGTTAGGAAAGA
CGATGGAGGTGGAATCCTTTAAGATTATGTCCAGTTATTTGCTTTAATAAAGAAGAAGTTACCCTTGTCAAATC
AG

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FIGURE 1414

GGCACGAGAACAATGGCGGCTCCACTAGGGGGTATGTTTTCTGGGCAGCCACCCGGTCCCCCTCAGGCCCGCCGG
GCCTTCCGGGCCAAGCTTCGCTTCTTCAGGCAGCTCCAGGCGCTCCTAGACCTTCCAGCAGTACTTTGGTGGACG
AGTTGGAGTCATCTTTCGAGGCTTGCTTTGCATCTCTGGTGAGTCAGGACTATGTCAATGGCACCGATCAGGAAG
AAATTGGAACCGGTGTTGATCAGTGTATCCAGAAGTTTCTGGATATTGCAAGACAGACAGAATGTTTTTCTTAC
AAAAAAGATTGCAGTTATCTGTCCAGAAACCAGAGCAAGTTATCAAAGAGGATGTGTCAGAACTAAGGAATGAAT
TACAGCGGAAAGATGCACTAGTCCAGAAGCACTTGACAAAGCTGAGGCATTGGCAGCAGGTGCTGGAGGACATCA
ACGTGCAGCACAAAAAGCCCGCCGACATCCCTCAGGGCTCCTTGGCCTACCTGGGAGCAGGCATCTGCCAACATC
CCTGCACCTCTGAAGCCAACGTGAGCAAAGGGCAGAGGCAGTTGGCCTATGAGTGGGCTGATGCGTGCAGGXTGGC
CACACATTCCCTTCTGTGGACTTGACATTTTTGGAAGAACTCTTTGCCAGATAATGAGTTCATTTTAGTTTTATG
CTCCATTGAAAAATTTTCCACTATTTTATAAGCTGTTAATTTCTTGAGTACTTTATAACATGTCTGTAGCTTG
GATAAACCAAGTAAGTATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1415

MAAPLGGMFSGQPPGPPQAPPGLPGQASLLQAAPGAPRPFSSSTLVDELESSFEACFASLVSQDYVNGTDQEEIRT
GVDQCIQKFLDIARQTECFFLQKRLQLSVQKPEQVIKEDVSELRNELQRKDALVQKHLTKLRHWQQVLEDINVQH
KKPADIPQGSLAYLGAGICQHPCTSEANVSKGQRQLAYEWADA

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FIGURE 1416

CCTAGACGCACGTCCGCTCGCCCCGGCGCCCGAGCCAGTCCGCGCGCACGCCGTCTGCGCCCCGAAAGCCCCGCC
CAAGGCGCGCCCGCCACCGCTCTCCACGTGCTCGCTGGAGGGCGGTGCGAGGGGCCGAGCCGACAAGATGTTCT
TGCTGCCTCTTCCGGCTGCGGGGCGAGTAGTCTGCGACGTCTGGCCGTGAGACGTTTCGGGAGCCGGAGTCTCT
CCACCGCAGACATGACGAAGGGCCTTGTTTTAGGAATCTATTCCAAAGAAAAAGAAGATGATGTGCCACAGTTCA
CAAGTGCAGGAGAGAATTTTGATAAATTGTTAGCTGGAAAGCTGAGAGAGACTTTGAACATATCTGGACCACCTC
TGAAGGCAGGGAAGACTCGAACCTTTTATGGTCTGCATCAGGACTTCCCCAGCGTGGTGCTAGTTGGCCTCGGCA
AAAAGGCAGCTGGAATCGACGAACAGGAAAACTGGCATGAAGGCAAAGAAAACATCAGAGCTGCTGTTGCAGCGG
GGTGCAGGCAGATTCAAGACCTGGAGCTCTCGTCTGTGGAGGTGGATCCCTGTGGAGACGCTCAGGCTGCTGCGG
AGGGAGCGGTGCTTGGTCTCTATGAATACGATGACCTAAAGCAAAAAAGAAGATGGCTGTGTGCGGCAAGCTCT
ATGGAAGTGGGGATCAGGAGGCCTGGCAGAAAGGAGTCTGTTTGCTTCTGGGCAGAACTTGGCACGCCAATTGA
TGGAGACGCCAGCCAATGAGATGACGCCAACAGATTGCTGAAATTATTGAGAAGAATCTCAAAAGTGCTAGTA
GTAAAACCGAGGTCCATATCAGACCCAAGTCTTGATTGAGGAACAGGCAATGGGATCATTCCCTCAGTGTGGCCA
AAGGATCTGACGAGCCCCCAGTCTTCTTGAAATTCACTACAAAGGCAGCCCCAATGCAAACGAACCACCCCTGG
TGTTTGTTGGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGACCTCATGA
GGGCTGACATGGGAGGAGCTGCAACTATATGCTCAGCCATCGTGTCTGCTGCAAAGCTTAATTTGCCCATTAATA
TTATAGGTCTGGCCCCCTCTTTGTGAAAAATATGCCAGCGGCAAGGCCAACAGCCGGGGGATGTTGTTAGAGCCA
AAAACGGGAAGACCATCCAGGTTGATAACACTGATGCTGAGGGGAGGCTCATACTGGCTGATGCGCTCTGTTACG
CACACACGTTTAAACCGAAGGTCATCCTCAATGCCGCCACCTTAACAGGTGCCATGGATGTAGCTTTGGGATCAG
GTGCCACTGGGGTCTTTACCAATTCATCCTGGCTCTGGAACAACTCTTCGAGGCCAGCATTGAAACAGGGGACC
GTGTCTGGAGGATGCCTCTCTTCGAACATTATACAAGACAGGTTGTAGATTGCCAGCTTGCTGATGTTAACAACA
TTGGAATAACAGATCTGCAGGAGCATGTACAGCTGCAGCATTCTGAAAGAATTGTAACATCATCCTAAGTGGG
CACATTTAGACATAGCAGGCGTGATGACCAACAAAGATGAAGTTCCTATCTACGGAAAGGCATGACTGGGAGGC
CCACAAGGACTCTCATTGAGTTCTTACTTCGTTTCAGTCAAGACAATGCTTAGTTTACATACTCAAAAATGTCTT
CACTCTGTCTTAAATTGGACAGTTGAACTTAAAAGGTTTTTGAATAAATGGATGAAAATCTTTTAAACGGAGACAA
AGGATGGTATTTAAAAATGTAGAACACAATGAAATTTGTATGCCTTGATTTTTTTTTTTCATTTACACAAAGATT
ATAAAGGTAAAGTTAATATCTTACTTGATAAGGATTTTTAAGTACTCTATAAATGATTAAAAATTTTAGAACTT
CCTAATCACTTTTCAGAGTATATGTTTTTCATTGAGAAGCAAAATTGTAACCTAGATTTGTGATGCTAGGAACAT
GAGCAAACCTGAAAATTACTATGCACTTGTGAGAAACAATAAATGCAACTTGTTGTG

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FIGURE 1417

ATTGGAGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGCGGCGGCTGCAGGCGAGGCGCGCCGGGTG
CTGGTGTACGGCGGCAGGGGCGCTCTGGGTTCTCGATGCGTGACGGCTTTTCGGGCCCCGCAACTGGTGGGTTGCC
AGCGTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAG
GCTGACCAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGA
GGATGGGCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGG
ACATCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTGACCTGGCTGGCGCAAAG
GCTGCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGCTGTTACCAGCTCTGCCAGAGC
CTGGCTGGGAAGAACAGCGGCATGCCGCCGGGGCAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATACCCCG
ATGAACAGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAAACTTTCCAT
GACTGGATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGGTAACCACAGAAGGAAGGACGGAA
CTCACCCAGCATATTTTTAGGCCTCATCTCAGTGCCTATGAGGGGCTGCCAGAAAAGTCACTAACCTGTCTCA
GTGTGGCCTTGTCCAGCCTTGTGTTTTCTGTAACCCCTGTTTGTGGTACGAGATAATGAGTCCTATTTTTCTCTC
ACATAATATGCATTTGCTCTCCTAGGACAGTGTAAATACATTTATGTGAAGTAAAGACATGCCGAGACTGGTGGCCT
GCAAATAGCATCCGTTGATCTGTGTTAACTGCATAGGGAGGGCTCTGCATAGCACCTGCTATAGCGGTGTCATGT
TGGATCGCTTTTGAGTGTTCATCTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATTGTTGGTAT
TGGGGACATTTTAAAGGCTGAGTTATTTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCATCCTTGAAT
TAACTGCCTTAACTCCTTTTGTGGTATAAGCAAACTACATGGACTCTGTCCTGGTATCCTTTTCCTGTGTGGT
TGCCCCGTGTCCTCTGGCCTAGGGTTAAGTGTGCAAGATAACTACTCGTGAGTATTCAGAATGTTGTTTCTAATA
AATGCACTTGTGTCTGTCTCTTTAATCAAATCACATCTTATATACAGCAGTCAGAGATGAGTATACTAGAATC
ATGGATTGCTGGAGGTCTTTAATCTGATGTTCTCAGAAGGGGTGGATTTAAATCCTGAAATAAATATTTCAAC
AC

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FIGURE 1418

ACAGTCCCTCCGGGTGGCGGGGCGCCCCGAGCGTGGCAGCGCGCTAGGCGGCAGCAGCGGGCGCGGAGCGGGGCG
CGGCCGCCGCGCGTTCCCTCTTGGCGGGGTGGCCGGCCGGGGCGGGGCGCGGCGCTCGGGCTCGAGGCATTTCGG
AGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGGCGGCGGGCGGCTGCAGGCGAGGCGCGCCGGGTGCTGGTG
TACGGCGGCAGGGGCGCTCTGGGTTCTCGATGCGTGCAGGCTTTTCGGGCTCGCAACTGGTGGGTGCCAGCGTT
GATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAGGCTGAC
CAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGAGGATGG
GCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAAGTGTGACCTGATGTGGAAGCAGAGCATATGGACATCG
ACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTAACCTTGGCTGGCGCAAAGGCTGCC
CTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGTGTTTACCAGCTCTGCCAGAGCCTGGCT
GGGAAGAACAGCGGCATGCCGCGGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATAACCCGATGAAC
AGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAACTTTCCATGACTGG
ATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTCATCTCAGTGCCTATGAGGGGCCTGCCAGAAAAGTCACTA
ACCTGTCTCAGTGTGGCCTTGTCCAGCCTTGTGTTTTCTGTAACCCCTGTTTGTGGTACGAGATAATGAGTCCTA
TTTTTCTCTACATAATATGCATTTGCTCTCCTAGGACAGTGTAAATACATTTATGTGAAGTAAAGACATGCGAGA
CTGGTGGCCTGCAAATAGCATCCGTCAATCTGTGTAACTGCATAGGGAGGCTCTGCATAGCACCTGCTATAGCG
GTGTCATGTTGGATCGCTTTTGTGACTGTTCACTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATT
TGTGGTATTGGGGACATTTTAAAGGCTGAGTTATTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCA
TC

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FIGURE 1419

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA
CTCCCGGCACGCCCCGGTGCCGCCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGGCGCGGTAACAAGTGGGCGAGGATCCCGTACGAGATCAAGAAGGT
GTTCCGCCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCCTAAGGGCAACAATTTTCT
GTACACCAATGGAAAGTGCGTCATCCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC
CCATCAGGTGGTGGTGGCCAAAGTATGCGCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG
GATCTGGGATACCACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTTCGCTGGGAAGATCAAAGACAT
TGCTTGGACTGAAGACAGTAAGAGGATCGCCGTGGTTCGGGGAAGGAAGGGAGAAGTTTGGAGCAGTCTTCCTCTG
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTTCATCAACAGCGTGGACATCAAGCAGAGCCG
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCAATTCTTTGAGGGACCCCCATTCAAGTTCAAGTT
CACAATTGGCGACCACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCTGATGGGAACAGATTGGCCACAGCCAG
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTGCTTTCTGCTTCTGGGGACAAAACCTC
CAAGATTTGGGACGTCAGCGTGAACCTCCGTGGTCAGCACATTTCCCATGGGCTCCACGGTTCAGGACAGCAGCT
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA
CCCCAGCAAGCCCCCTGCAGTCATCAAGGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAACGGCGG
CAAGTCTTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTGAGAGACGGGGGAGAACGACTC
CTTCGCTGGGAAAGGCCACACGAACCAGGTGTCCAGGATGACCGTGGATGAGTCGGGGCAGCTCATCAGCTGCAG
CATGGACGACACCGTGCCTGACACAGCCTCATGCTGCGGGACTACAGCGGACAAGGAGTTGTGAAACTGGACGT
TCAGCCAAAGTGCGTAGCCGTGCGCCCCGGGGGATACGCCGTGGTGTGTCATTGGACAGATTGTCTCTGCTGAA
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGGCGGGGA
CACGGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCCTGTATTCCATCCTGGGCACCACGCTGAAGGATGAGGG
CAAGCTCCTAGAGGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCACGACGGCGCCTTCCTCGCGGTGTGCGA
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGCTGACGGCTACTCGGAGAACAAATGTTTTTATGGACACCATGC
AAAAATCGTCTGCCTGGCCTGGTCCCCAGACAATGAACACTTTGCCTCCGGTGGCATGGACATGATGGTGTATGT
TTGGACCCTGAGTGACCCGGAAACCAGAGTCAAGATCCAAGATGCACACCGGCTGCACCATGTCAGCAGCCTGGC
CTGGCTGGACGAGCACACGCTGGTCACGACCTCCCATGATGCCTCTGTCAAGGAGTGGACAATCACCTACTGAGG
AGCCCCACCCCGCCTCTGGATGGACCGAATCAGGCACTAGAGTTTAACTGCAGCGGAACATGTCATTTCTCTAT
TTCTGTGACGCGCCCCCATGCCCCACCCACCACAAGAGGCAGGAGGGCCCCAGTCATGACCCCTCGTCTCTGCAG
GGTGTCTGTACACGTTCTTCTGAAAAGCTTTAGACAGTAACAGTTTGCACATGAAAAATAAAGCGAGCACCTAAAC
AATGTGTGGAGCATAAATAAAACCCACAGCCCAACCAAACCTTGAGAATGCGAAACATTCCAGAGGCAGTAGCCT
CCAAAGCACACAGAGCCCCCTGGCCCCGCGCGGCTCTCACTATCTGTACAGGGGAGGTGTACAGGTGAATGAGCC
GGGGGGCTCATGTTTCTGCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGAATATGCATTGCAGTTCAGCAA
GCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACCTTGTGGCTGCCTTCAGAGCGCC
ACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTTCATTGTGATGATTTTGTGCTTGATTTAAGAATG
GAATTGTGGGATCTTTTCTTTTAAATGTATCTTAACTGTTGCCTGTCAGTGTTCACAACTAGTGCCTTG
ACGGCACCGTGTCCAAGTTTTTGAACCCCTGTTAGCCAGACCGAGGTGTCCTGGTCACCGTTTCACCATCATGC
TTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTTAAGGACAAAGATGAAGTCACTG
TAAACTAATCTGTCAATTGTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAATTAAGTAAGTATAAAGCACCGT
GATTGGGAGTGTGTTTTGCGTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAACAATCCCTCCCCTTGCACTTGT
GAAAACACTTTGAGCGCTTTAAGAGATTAGCCTGAGAAATAATTAAATATCTTTTCTTCAAAAAAAAAAAAAA
AAAA

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FIGURE 1420

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVAKYAPSGFYIAS
GDVSGKLRWDTTQKEHLLKYEQPFAGKIKDIAWTEDSKRIAVVGE GREKFGAVFLWDSGSSVGEITGHNKVIN
SVDIKQSRPYRLATGSDDNCAAFFEGPFFKFKFTIGDHSR FVNCVRFSPDGNRFATASADGQIYIYDGKTGEKVC
ALGGSKAHDGGIYAIWSPDSTHLLSASGDKTSKIWDVSVNSVSTFPMGSTVLDQQLGCLWQKDHLLSVSLSGY
INYLDRNNPSKPLHVIKGHKSISQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQRKCFSIDNPGYEPEV
VAVHPGGDTVAIGGV DGNVRLYSILGTTLKDEGKLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN
NVFYGHHAKIVCLAWSPDNEHFASGGMDMMVYVWTLSDPETRVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVK
EWTITY

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FIGURE 1421

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA
CTCCCGGCACGCCCCGGTGCCGCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGGCGCGGTAACAAGTGGGCGAGGATGCCGTACGAGATCAAGAAGGT
GTTTCGCCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCTAAGGGCAACAATTTTCT
GTACACCAATGGAAGTGCCTCATCCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC
CCATCAGGTGGTGGTGGCCAAGTATGCGCCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG
GATCTGGGATAACCACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTCGCTGGGAAGATCAAAGACAT
TGCTTGGACTGAAGACAGTAAGAGGATCGCCGTGGTTCGGGAAGGAAGGGAGAAGTTGGAGCAGTCTTCCTCTG
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTCATCAACAGCGTGGACATCAAGCAGAGCCG
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCATTCTTTGAGGGACCCCCATTCAAGTTCAAGTT
CACAATTGGCGACCACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCCTGATGGGAACAGATTTGCCACAGCCAG
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTTGCTTTCTGCTTCTGGGGACAAAACCTC
CAAGATTTGGGACGTCAGCGTGAACCTCCGTGGTCAGCACATTTCCCATGGGCTCCACGGTTCTGGACCAGCAGCT
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA
CCCCAGCAAGCCCCCTGCACGTATCAAGGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAACGGCGG
CAAGTCCTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTAGAGACGGGGGAGAACGACTC
CTTCGCTGGGAAAGGCCACACGAACCAGGTGTCCAGGATGACCGTGGATGAGTCGGGGCAGCTCATCAGCTGCAG
CATGGACGACACCGTGCGGTACACCAGCCTCATGCTGCGGGACTACAGCGGACAAGGAGTTGTGAACTGGACGT
TCAGCCAAAGTGCCTAGCCGTCGGCCCCGGGGGATACGCCGTGGTCTGTGATTGGACAGATTGTCCTGCTGAA
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGCGGGGA
CACGGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCCTGTATTCCATCCTGGGCACCCACGCTGAAGGATGAGGG
CAAGCTCCTAGAGGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCCACGACGGCGCCTTCCTCGCGGTGTGCGA
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGCTGACGGCTACTCGGAGAACAATGTTTTTTATGGACACCATGA
AAAAATAAGCGAGCACCTAAACAATGTGTGGAGCATAACTAAAACCCACAGCCCAACCAACCTTGAGAATGCGA
AACATTCAGAGGCAGTAGCCTCCAAAGCACACAGAGCCCTGGCCCCCGCGCGGCTCTCACTATCTGTCAGGGG
AGGTTGTACAGGTGAATGAGCCGGGGGGCTCATGTTCCCTGCCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGA
ATATGCATTGCAGTTCAGCAAAGCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACC
TTGTGGCTGCCTTCAGAGCGCCACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTCAGAT
TTGTGCTTGATTTTAAGAATGGAATTGTGGGTATCTTTCCTTTTTTTTTAATGTATCTTAAGTGTGCCTGTCA
GTGTTTACAACTAGTGCCTTGACGGCACCGTGTCCAAGTTTTTAGAACCTTGTTAGCCAGACCGAGGTGTCCT
GGTCACCGTTTCACCATCATGCTTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTT
AAGGACAAAGATGAAGTCACTGTAAACTAATCTGTCTATTGTTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAAT
AAAAGTAAGTATAAAGCACCGTGATTGGGAGTGTGTTTTCGTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAA
CAATCCCTCCCTTGCACTTGTGAAAACACTTTGAGCGCTTTAAGAGATTAGCCTGAGAAATAATTAAATATCTT
TTCTCTTCAAAAAAAAAAAAAAAAAA

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FIGURE 1422

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVAKYAPSGFYIAS
GDVSGKLRIWDTTQKEHLLKYEYQPFAGKIKDIAWTEDSKRIAVVGEKREKFGAVFLWDSGSSVGEITGHNKVIN
SVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVNCRFSPDGNRFATASADGQIYIYDGKTGEKVC
ALGGSKAHDGGIYAIWSPDSTHLLSASGDKTSKIWDVSVNSVVSTFPMGSTVLDQQLGCLWQKDHLHSVLSGY
INYLDRNNPSKPLHVIKGHKSISQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQKCFSDNPGYEPEV
VAVHPGGDTVAIGGVDGNVRLYSILGTTLKDEGKLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN
NVFYGHHEK

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FIGURE 1423

ATTTTAGCTGTTGGTTCCGGCCGCACCGTGTGGGCTGTAGTAGCGGGAGGGGTGGGGGTCTCCAGAGTTAAGTG
GCTGTCCTCGACTGTGCCCATACAGCAGCCAGCTTTCTTCTTAATAACTGCCCGTTCGAAGAGTGCAGGATGT
CCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAGCGTGCGGGGACCGATGGGAAGGATC
GAGATCGAGACCGGGATCGTGAAGATCGGTCTAAAGATCGAGACCGAGAACGTGATAGAGGAGATAGAGAGCGAG
AGAGGGAGAAAGAAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTGCTGGATTACCACCTT
TGAAAGCTTCCCATTACGCTCACTCAACCCACTCAGCACATTCAACGCATTCAACACATTCTGCTCATTCAACGC
ATGCCGGACATGCAGGTCACACGTCACCTTCCACAGTGCATTAATCCGTTACCAACTTACCCCATACTCCTCGAT
ACTATGATATTCTAAAGAAACGTCTTCAGCTCCCTGTTTGGGAATACAAGGATAGGTTTACAGATATTCTGGTTA
GACATCAGTCCTTTGTACTGGTTGGTGAGACTGGGTCTGGTAAACAACACAGATTCCACAGTGGTGTGTGGAGT
ACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTGGCTGCAATGAGTGTGG
CTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAAGTTGGTTACTCCATTTCGATTTGAAGACTGCA
GTAGTGCAAAAACCATTTCTAAGTATATGACTGATGGGATGTTACTTCGTGAAGCTATGAATGATCCCTCCTGG
AGCGTTATGGTGTAATAATTCTTGATGAGGCTCATGAGAGGACACTGGCTACAGATATTCTAATGGGTGTTCTGA
AGGAAGTTGTAAGACAGAGATCAGATTTAAAGGTTATAGTTATGAGCGCTACTCTAGATGCAGGAAAATTCCAGA
TTTACTTTGATAACTGTCTCTCTCTAATCTTCTGGGCGTACACATCCTGTTGAGATCTTCTATACTCCAGAAC
CAGAGAGAGATTATCTTGAAGCAGCAATTTCGAACAGTTATCCAGATTTCATATGTGTGAAGAGGAAGAGGGAGATC
TTCTTCTTTTCTTAAGTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTGAAAGTTGATGATTTGG
GCCCTGAAGTTGGTGACATTAATAATCATTCCATTGTATTCTACACTTCCACCTCAGCAGCAGCAACGCATTTTTG
AGCCTCCACCTCCCAAAAAACAGAATGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTAACATAGCAGAGACGT
CTTGACAATAGATGGTGTGGTGTGTTGTGATTGATCCTGGATTTGCGAAACAGAAGGTCTACAATCCTCGAATCA
GAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAAAGGGCTGGTTCGAGCTGGACGTACCA
GACCTGGAAAATGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGA
TTTTGCGTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACTTGGTACATTTTGATT
TTATGGATCCACCAGCTCCTGAAACTCTGATGAGAGCCCTGGAACTTTTGAATTACCTGGCTGCTTTAAATGATG
ATGGAGATCTGACTGAATTGGGATCCATGATGGCAGAGTTTCTCTAGATCCACAGCTCGCAAAAATGGTTATTG
CAAGTTGTGACTACAACCTGTTCTAATGAGGTCTTATCTATTACTGCTATGTTGTCAGTCCCACAGTGTTTTGTTT
GCCCCACGGAGGCCAAGAAAGCCGCAGATGAGGCCAAGATGAGATTTGCCACATAGATGGAGATCATCTGACAC
TGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTTCAGTGGTGTATGACAACCTTCATTAACCTACA
GGTCCCTGATGTCCGCAGACAATGTACGCCAGCAGCTATCTCGAATTATGGACAGATTTAATTTGCCTCGTCGAA
GTACTGACTTTACAAGCAGGGACTATTATATTAATATAAGAAAAGCTTTGGTTACTGGGTATTTTATGCAGGTGG
CACATTTAGAACGAACAGGGCATTACTTAAGTGTGAAAGATAACCAGGTGGTTCAGTTGCATCCCTCTACTGTTT
TTGACCACAAACCTGAATGGGTGCTTTATAATGAGTTTGTCTAACAACAAAGAATTACATCCGGACATGTACAG
ATATCAAGCCAGAATGGTTGGTGAAAATGCCCCCTCAATATTATGACATGAGCAATTTCCCACAGTGTGAAGCAA
AGAGACAGTTGGACCGCATCATTGCCAACTTCAATCCAAGGAATATTCACAGTACTGAATTCAGTGCTTAGAAC
TGAAGTTATTGAGAGGACAGCTTTAAAGATGAATGAACCTCAAAGTTTCAGATTGTGCTCTTCACGTTGGTTTCGA
TAATGGCCTTTATTTGAAAGCTTTTAAATTTTCTTTACAGTAAATATTCATTCTGATTTTATAAATTAAACAT
TTATGCCTCCCTTTTGTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTTGCAGTTTATTGAAAGT
AGTTCTATATATAACAATGTTATAAGCATTTCTTTAGAAATGGTTGAAAATGCTTCTAAAATGTGATTATCGACC
ATGGTATGCATGATCGTTGTAATTGTTGACATTCCTTTTAGAAGTTGTGAAATGTTACAACCTTGTGCTTATGTAG
ACACAATCTTCTGTCTCAGTACAGAGGCACTGACTTCAATAAAGTCTATTTATACT

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FIGURE 1424A

AGGATTTTAAAGAGTGGACTTGGTATTACCATAATTCCTATGAATGTAGCAAATGTAAAGCAAGTGGACCGAACTG
TGAAACAATCTTTTGAATAATCACTCCCTACAGGAGTTTCAGCTTTACAGCCGAGACTGAAAAGGAGAAACAAG
ACTGGATTGAAGCTGTGCAGCAATCAATAGCAGAACTCTCTCTGATTATGAAGTAGCTGAGAAGATTGGTTCA
ATGAATCCAACAGGAGCTGTGCAGATTGTAAAGCCCCAGATCCTGACTGGGCATCCATCAATCTCTGTGTTGTCA
TCTGTAAGAAGTGTGCAGGACAGCATAGATCTTTAGGACCAAAAGATTCCAAGGTTAGAAGTCTAAAAATGGATG
CTAGCATTTGGAGCAATGAATCATCGAGCTTTTTATTGTCTATTGGAAACAAAAGAGCAAATGACTTTTGGGCTG
GTAATCTTCAAAAGGATGAAGAATTACATATGGACTCACCAGTAGAAAAGAGAAAAAACTTTATTACTCAGAAAT
ATAAAGAAGGAAAAATCAGAAAACTCTTTTGGCATCTCTACCAAAGAAGAATTAATAAGGCTCTATGTGCTG
CTGTAGTGAAACCGGATGTTCTAGAAACAATGGCTTTGCTGTTTCAGTGGAGCAGATGTCATGTGTGCCACCGGAG
ACCCCGTGATAGCACCCCTATCTGCTAGCCAAGAAAGCTGGGCAAAGTCTGCAAATGGAATTTCTCTACCATA
ACAAATCTCAGATTTCCCTCAACATGATATTCAATCCGAGGGTGTATTAAGTCAAGAGTCTTCCAGTCCACAT
TCCTCTGTGACTTTTTATATCAAGCTCCTTCTGCTGCTTCTAAACTCTCTTCAGAGAAAAAACTGCTTGAAGAGA
CAAATAAAAAATGGTGTGTTTTGGAAGGAGGCTTCTTGAGTTACTATGAAAATGATAAGTCTACCACACCTAATG
GCACCATTAATATCAATGAAGTTATCTGCCTGGCTATACACAAAGAGGACTTCTATTTAAATACTGGGCCCATCT
TTATCTTTGAGATCTACTTACCTCCGAACGTGTGTTTTTATTTGGAGCTGAAACATCTCAAGCTCAAAGAAAAT
GGACAGAGGCAATAGCCAAGCATTTTGTTCCTTATTTGCTGAAAACCTTAACAGAAGCTGACTATGATTTGATTG
GTCAACTCTTCTACAAAGACTGCCATGCCCTGGATCAGTGGAGAAAAGGCTGGTTTGTCTATGGACAAATCCAGCT
TGCATTTTTGCCTTCAAATGCAAGAAGTTCAGGGAGATAGAATGCACCTTAAGAAGACTGCAAGAGCTAACAATCA
GCACAATGGTTCAAAATGGGGAAAACTGGATGTTTTACTCTTGGTAGAAAAAGGGAGAACATTATACATCCATG
GGCATACCAAGTTGGATTTACAGTCTGGCATACTGCAATTGAAAAAGCAGCAGGTACAGATGGTAATGCTTTAC
AAGATCAGCAGCTCAGCAAAAATGACGTTCCCATTAAGTGAACAGCTGTATAGCATTGTGTACACAGTATGGTT
TAGGATGCAAAATATCTATCAAAAGAATGGTGATCCTTTGCATATAAGTGAACCTCTGGAGAGTTTCAAAAAGG
ATGCAAGAAGCTTTAAATTGAGGGCTGGAAAACATCAGCTTGAAGATGTGACGGCTGTGTTGAAAAGTTTTCTCT
CTGACATTGATGATGCACTGCTTACTAAGGAGCTCTACCCATATTGGATCTCTGCTTTAGATACGCAAGATGACA
AGGAAAGAATTAAAAAATATGGAGCATTTATACGTTCTCTTCCAGGGGTCAACCGAGCAACACTAGCAGCTATCA
TTGAACACCTGTATAGGGTTTCAGAAATGCTCAGAAATCAATCACATGAATGCCATAATTTGGCCTTGGTCTTTT
CATCTGTTTTGTTTTCAAACGAAGGGACAACTAGTGAAGAAGTGAATGTAATTGAGGACCTAATTAATAATTATG
TAGAAATATTTGAGGTTAAAGAAGATCAAGTCAAACAAATGGACATAGAAAATAGCTTTATTACCAAGTGGAAG
ACACCCAAGTTTCCAGGCTGGAGATTTGTTAATTGAAGTATATGTAGAAAGGAAGGAACCCGACTGTAGTATTA
TAATTCGGATATCTCCTGTGATGGAAGCAGAAGAATTAATAATGATATATTAGCGATAAAAAATATTATTCCTA
CAAAAGGTGATATTTGGGCCACATTTGAAGTCATTGAAAATGAAGAGCTAGAGCGTCTCTTCACTACAAGGAAA
ATGTACTGGAGCAGGTGCTTCGGTGGAGTTCATTAGCTGAACCTGGCTCTGCTTACCTGGTGGTGAAGAGATTCT
TAACCGCTGACACAATTAACACTGCAGTGACCGGAGTACACTGGGAAGCATCAAAGAAGGAATCTTGAAAATCA
AAGAAGAACCATCCAAAATACTATCTGGAAATAAGTTTCAAGACCGGTATTTTGTGTTTTACGAGATGGGTTTCTCT
TTCTTTACAAGGATGTGAAGAGTAGTAAACATGACAAGATGTTTTCTCTCAGTTCCATGAAGTTTTATCGTGGAG
TGAAAAAGAAAATGAAGCCTCCAACAAGCTGGGGATTGACCGCATATTCTGAGAAACATCACTGGCACCTGTGTT
GTGATAGTTCACGAACCTCAGACGGAGTGGATGACCAGTATCTTTATTGCCCAGCATGAATATGATATATGGCCAC
CAGCTGGAAGGAACGAAAACGTTCAATAACCAAAAATCCAAAATTGGAGGTTTGCCTCTGATTCTCTATACAGC
ATGAGGGGAATGCAACCTTGGCCCGGAAAAATATTGAGAGTGCAAGAGCAGAACCTTGAAAGGCTGCGGCTCAGTG
AAAAGTGTGATAAAGAGTCCGTGGACTCTAGCTTAAAGGAGAGAGCTTCCATGGTGGCCCACTGCCTGGAGCACA
AGGACGATAAACTTCGAAATCGACCCCGAAAACATCGGAGTTTCAACTGCCTGGAGGACACAGAGCCTGAAGCCC
CACTTGGGCAACCAAAAGGCCATAAAGGCCTAAAGACATTGAGGAAGACTGAGGACAGGAATAGCAAAGCTACTT
TGGACTCTGATCATAAGTTACCATCAAGGGTAATTGAAGAACTTAATGTGGTTCTACAACGGTCAAGAACCCCTC
CAAAAGAATTACAGGATGAGCAGATTTTGAAGTAGGAAATAAAATGAATTGCTCCCAGATTATTTTTTTAATAT
TGATGCAATCTTTATGTGTAACCTCAAAACTGAACATAAGATAATTGATAAGAATTTGCCTATTGATAGGCAA
ATTTGTCTATGCTTAGGCATTTAAGGAGCATTTAAAAATATGTATATATGTGACTGAATGTAAGATTAACCTTTAT
TTTGGTCTGAACAAACCTTGTAAGTTCCATTGTATTAACGTGTGTAAGAAGACATTGGGTACTTAGGTGGTCA
GTCCTTTTAAAGTAGTTGTCTGTTAAGTGGTATAATTTATGAGCAGAAATCTCAAACGTACTGTATTGTATAAA

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FIGURE 1424B

ATGCTGTGTTTAAATGAAGCCTAAGAACTATCTGTAACATATTTTGCACTTTGAGAAACCTTGTATATTAAATT
ACCATATGTTTTTAGGTTTACAGAAGTTCTACCTTAGGGAAAAGAAAGGGAAGTAAATTGAAAAAGGGGGGAGAA
TTTATTGTAGTGGCTGCCTAAAAACCACTGGAGTTTTTAAAAGAAGCAAGGAGTTAAATGTCTGCAAAAACAAGG
AAGTGAGCTAAGATTCACTTAGTTCACTAATGACCAGAACTTGTCAATGAGAAACCACTTGTTAAGAAAAAGTC
CAGTGTGTTATTTCTCAAGAGTAATATTCGGCCAACAGATGTAAATAATAGCACTAGCCACTCTTATTAATATTTA
TAGTGTTAGAAAAACCAGCCACATTACAGATTCACTACGTTTGAGCTCATTGTTGGTGGCTGCTAAGAGGAACTT
ACACTGCATTGGAGAGGTTGTGTACACAGGACCTGGCCTGGATGCTGATTGCACTGTCATTGTATGCAAGCATT
TGTCTTTTTTCAGAATTTCTGACTATACTTTTGGTACGAACAAATTCATCACCACAGGGTCCTGTTGTTTTGTT
TGATTTTTAGATTTTTTTAAATTATTATTAAGGTTGTAATGTTTTTCTCCGAGTTGTCAGAAATAACTGGAAGAA
TACAATATATGGCCATTATGGAGCCAGGGGCTAGTTGGTGGTTTACTATACATTTGGGGGCTACCTGGTCACATT
TAATCTAGGTTTTTTTTCTTTTTTAAAGTAAAGGTGTGGTCTCTTCCCTGTACTTATGAATAAGGACAAAGCCC
TATTTTTGTTTCCACATAAAGATCAGCTACTGAATTGGTGAATTTCTTGACAGACAATGCTATCTAACCATAGTT
CATGTTAGGGGAAGCATTTTTCCATCAGTTTCTTTAAATTTGGATTGCTGGTGAGTTTGTATTTAAACATTAT
GTAGCTAAGTTTTTTTTTTTAGCATTTCTTTTTTATTTTCAATCTATATTACAGGCCCATACTTCAGTCAGT
CCAATCATAGTACAGTGATGTGGTGGTAGATGCTATGAATTTCTTCATTGTAAATACGGATCATTGTATTTTG
GGGTGATAAAATAGTTCACCATGGGTATGAGATATTTATTCTTTAAATCAAAGTAAATTAGAATTTTTAAAAGC
ACAAAACCTGCAGGACAGTTTATGAAATAGGTGGCACTATTAGGGAATCTTCCTTTAAAGCAAGAAATCATGTTAT
TTAGAAAGAAAACTAATCTTAAACATACTATTTCTAATAAATATTTATATTTTATGAAATAAAGAGGTATGTG
GAAATTAATATTTGGTGATGTTGGACAGTGGAAAAGTATCTAGAGTTTTTACCTGCCTTATCTGAATTCTTCTTG
AACTTGAGCTTAACTCTAATAGCTGTTTCCCTTTCTATTCTGAACAACCTGTCTCCATTTTTCAAGTGTGAGAG
ATAAGGGCTAATGATGACATCTCATTTATTTTGAGTAAACATTAAATTTGTTTTACAAGTCTACTTG

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FIGURE 1425

TTCTTTCTTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAATGT
CGACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCTGCGGAGGGACTTCAATCACAT
CAATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGA
ACTGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAA
GATGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTGAAATCCGAAA
TTTCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAA
AGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTGTTCAGCAAGCCACAAC
AGTTAAAAACAAGGATATCAGGAAATTTTTGGATGGTATCTATGTCTCTGAAAAAGGAAGTTTCAGCAGGCTGA
TGAATTAAGATCTAAGAGTTACCTGGCTACAGAAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTA
AATGATGCAATAAAAGACCTATTGATTTGGACCTTCTTCTT

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FIGURE 1426

MKTILSNQTVDIPENV DITLKGR TVIVKGPRGTLRRDFNHINVELSLLGKKKKRLRV DKWWGNRKELATVRTICS
HVQNM IKGVT LGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVRMRPGVACSVSQAQKDELILEGND
IELVSNSAALIQQATT VKNKDIRKFLDGIYVSEKGT VQQADE

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FIGURE 1427A

GTCCTTGCTTCTTTTTTTCATTGATGTAAATTTTTTTAACTTAATATGAAAACCTCTCCAAGTCTTGATCATCAGCC
AGGATTTTTGCCACAGCAATTTTCATTCTTATCGGAGCTTGTATGTGTCAAAGTATACTTCAGAGTGCAAACATT
AAGCAAGTAATATATTTTACCTACAGATACTTATGAAGACATTCTTTTCGCTATCGTGAGTAAAAAGTATATAAAGC
TGTTTCTAACTGAAAATGCTTGAAATAAGCCTGTAATAGAAATATTTTTTCATTTTTTAAAAAAGGGCGGAATTC
CCAGACTGTCTTCGCCTTCTTGCACTTCGCGGGAGAAGTTGTTGGCGCGAATGGATCCTGAGCCTCGATAACAGA
TTCCTCAACCGGCCCCACCCGCCAGCCAGCCAGCGCCTTCATCCTGGGGCTGCGATGGACATTTCGGAAATTCCTTG
GAGTAATACCAAGTGGAAGAACTTGTAAGTGAAACAGTAAAGAAGAATGAGAAAACAAAGTCTGATGAAGAAA
CTTTAAAAGCAAAGAAAGGAATAAAGGAAATCAAGGTAAATAGCTCCCGTAAAGAGGATGACTTCAAACAAAAGC
AACCAAGCAAGAAAAAGAGGATCATCTATGATTAGATTAGAGTCAAGAGGAGACGTTGCAGGTAAAAAATGCCA
AAAAGCCACCAGAAAAACTGCCAGTATCTTCTAAACCTGGTAAAATTTACGGCAGGATCCTGTTACATACATTT
CAGAAACAGATGAAGAAGATGACTTTATGTGTAAGAAGGCGGCCTCTAAATCAAAGAGAATGGAAGATCTACAA
ATAGTCATCTTGGAACATCAAAACATGAAAAAGAATGAAGAAAACACTAAGACCAAGAATAAGCCTTTATCACC
TAAAACCTTACACCCACATCAGTACTTGATTATTTTGGAACTGGAAGTGTCCAAAGATCTAATAAGAAGATGGTGG
CAAGCAAAAGAAAAGAGCTTTCACAAAATACAGATGAGTCTGGATTAAATGATGAAGCCATCGCCAAGCAATTAC
AGCTTGATGAAGATGCGGAGCTGGAGAGGCAGTTGCATGAAGATGAAGAGTTTGCCAGAACATTAGCCATGTTGG
ATGAAGAACCCAAGACCAAAAAAGGCTCGAAAGGACACAGAAGCGGGAGAAACGTTTTCATCTGTCCAAGCCAATT
TAAGTAAAGCAGAAAAACATAAATATCCTCATAAAGTAAAAACAGCACAAAGTTTCAGATGAAAGAAAGAGCTACA
GTCCTAGGAAGCAAAGTAAATATGAAAGTTCAAAGAATCTCAGCAACATTCCAAGTCATCAGCTGACAAAATAG
GAGAAGTCTCTTCTCCCAAGGCCAGTTCTAAGCTGGCAATTATGAAAAGAAAAGAAGAGAGCTCTTATAAAGAAA
TAGAGCCTGTGGCCTCAAAAAGAAAAGAAAATGCCATTAAATTGAAAGGAGAGACAAAAACTCCTAAGAAAACCA
AAAGTTCTCCAGCTAAAAAAGAGTCTGTAAGTCTGAAGATTCTGAAAAGAAACGCACTAATTATCAAGCTTATC
GAAGCTACTTAAATCGAGAAGGTCCCAAGGCTCTGGGCTCCAAAGAAATACCAAAGGGAGCTGAAAATTGCTTGG
AAGGCCTTATATTTGTAATCACAGGCGTGCTGGAGTCTATTGAACGAGATGAGGCCAAGTCTCTAATTGAACGTT
ATGGGGGAAAAGTAACAGGAAATGTCAGCAAGAAAACAAATTATCTTGTCTATGGGTCTGTAGTGGACAGTCCA
AGAGTGATAAGGCCCGCAGCCTTGGGGACAAAATTATTGATGAAGATGGCCTGTTGAATCTGATTCCGACTATGC
CAGGCAAGAAATCCAAGTATGAAATAGCAGTTGAACTGAGATGAAGAAAGAGTCCAACTGGAGAGAACACCCCC
AAAAAATGTCCAAGGAAAAAGAAAAATTAGTCCATCTAAAAAGGAATCAGAATCTAAAAAGAGCAGGCCGACTT
CCAAAAGGGACAGTTTGGCAAAGACAATAAAAAAGGAAACAGATGTGTTTTGGAAAAGCCTGGATTTCAGGAGC
AGGTGGCTGAGGAGACAAGTGGTGACAGCAAGGCTAGGAATTTGGCTGATGACAGCAGTGAAAACAAAGTGGA
ATTTGCTCTGGGTGGATAAATATAAGCCAACCTCGCTCAAGACCATAATTGGACAGCAAGGTGACCAGAGCTGTG
CCAACAACTCCTACGCTGGCTCCGAACTGGCAAAAGAGTTCTTCCGAAGATAAAAAACACGCAGCAAAAGTTTG
GTAAATTTTCCGGCAAAGATGATGGCTCTAGTTTTTAAAGCAGCGTTGCTGTGAGGCCCTCCTGGTGTGGCAAAA
CCACCACAGCTTCCCTGGTGTGTCAGGAGTTGGGATACAGCTACGTGGAAGTGAATGCAAGTGACACCCGAGTA
AGAGCAGTTTGAAGGCGATTGTTGCTGAGTCACTGAACAATACCAGCATCAAAGGCTTTTATTCAAATGGAGCAG
CCTCTTCAGTAAGCACGAAACATGCTCTCATCATGGATGAAGTAGATGGCATGGCAGGCAATGAGGATAGGGGAG
GAATTCAGGAATTAATTGGCCTGATAAAACATACTAAATTTCCATTATTTGTATGTGCAATGATAGAAATCATC
CCAAGATTCGCTCTCTGGTTCATTATTGTTTTGATCTTCGTTTTCAAAGACCTCGGGTTGAACAGATTAAGGGTG
CTATGATGTCTATTGCATTTAAAGAAGGTTTAAAGATTCCCCCTCCAGCTATGAATGAAATAATTTGGGAGCCA
ATCAAGATATCAGACAGGTTTTACATAATCTGAGTATGTGGTGTGCACGAAGTAAAGCATTAACTATGACCAGG
CCAAAGCTGATTCTCAGAGGCCAAAAAGGATATCAAATGGGGCCATTTGATGTTGCCCCGAAAGTGTTTGAG
CTGGAGAGGAGACTGCTCACATGTCACTTGTGGACAAGTCAGATCTCTTTTTTTCATGATTATTCAATAGCACCCC
TCTTCGTCCAGGAAAATTACATACACGTGAAGCCTGTAGCAGCAGGGGGTGACATGAAAAAGCACCTGATGCTTT
TAAGCAGAGCAGCAGACAGCATATGCGATGGTGACCTAGTGGACAGCCAGATCCGGAGTAAGCAAACTGGAGTC
TTCTGCCTGCGCAGGCCATTTATGCCAGTGTCTTCTTGGAGAGTTGATGAGGGGGTACATGACCCAGTTTCCCA
CCTTCCCAAGCTGGCTGGGGAAGCACTCGTCTACAGGCAAACATGATCGTATTGTTTTCAGGACCTGGCCTTGATA
TGAGTCTCAGAACTTACTCCAGCAAAAGGACTGTAAACATGGATTATCTGTGCTTCTAAGGGATGCACTTGTAC
AGCCCTTGACCTCACAAGGAGTAGACGGAGTACAGGATGTTGTTGCACTTATGGACACATATTATTTGATGAAAG
AAGACTTTGAGAATATCATGAAATCAGCAGCTGGGGTGGCAAACCTAGTCCCTTTTCAAAGCTGGATCCCAAGG

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FIGURE 1427B

TGAAAGCAGCCTTCACAAGAGCTTACAATAAGGAAGCCCACCTTACTCCATACTCACTTCAAGCTATAAAGGCAT
CTAGACACAGCACAAAGCCCATCCCTGGATTTCGGAATACAATGAAGAATTAAATGAAGATGACTCTCAATCTGATG
AGAAAGACCAAGATGCTATAGAAACTGATGCCATGATCAAGAAAAAGACAAAATCTTCAAAGCCTTCAAAACCAG
AAAAAGATAAGGAGCCCAGAAAAGGAAAAGGAAAAAGTTTGAAGAAATGAAACCATTTTCACTAGCGACAGCCA
CTTTTTACTCTCCCTCCTGACCAGTCCAGCTGGTCTAGAGAAAGCCTTGTTTTTTCCAGAGCAACCATGTTTTA
GCATAATGGGATGACCTGGTGTCCCATTTATAAATAAAGGGTGGTATGGCTAGAAGGGTATGAGCAGTAGGCTTAT
GTACACCTCTTATAGAGGTTGATAGGACTGCTTGGGTCTCCACTGTCTCTGTCAATCTAGTTAGACGTGCTTC
TGAATGACTGTAGAATTGGAAGTAGAACTACACCTGGGCTTTGGAGTCAGATTTTAGTTAACAATAATGAGCCT
GGAGCAGTAGTACTAAGGCGTCTTTTGTAGGCTTAAGAATTTATCCTAATGGCCTTTATAGGACCAATGCTGATT
TTTTTTAAAGGCAGTTCCTATTATGTGGTGAAATTTGTAAATAAATGATTATACAAAACAGTCACCACCTAGAA
CTGGGTATTCTTTGTACATTGTCAGATATCTTTCAAAGTATAAATTAGGAATAAAAATGTTCCACATGATATGTG
TACAAATTCTTTTTAAGATTGTCATCTTGTACAGCAAAATATTATGTTGGTATATTACTTCCTTATTAATTTGCA
AATGATTGGATTAAAAAAGCTCACTGTATTCCTTACTAACCTGTTGTGTGAAACATAACATTGGCAGTCGAGGAG
TCAGAACTCGGATTCCCAGCCTCACTCCCTCTGTGTGTGTTGACCACGTCTCTGCTGTGAATAGGATTTCAIGCA
GTGGTCTGTTATGGGGCTTTGCAGCGTGGGGGGCTGCAGAAGATTCTCAGACATTCTTATCCTTCTGGAGTCTCA
ACCCATCAGGTTTCAAGACCAGTAGGAACCAGGCTGGGTGAGGCTCTTAATTTCACTACGGTGGGGGACAAAATGAA
CACTGGCTTTTGTTCACCTTGCCCTGAGAGATCTAGTCCTGTCTGTGATGGCTTCCACAAACCTGTTGGAAG
TTTGGGTATTCTTATACTGTATGTGTTGAGTGGCCGTGACGTATGGACCTAGCCTGGAATTTAGATGTCTAGC
TATTTTTTAATCTTGTGTTGGTAAATGCTCAGAGGTCTGTGCTACCTCTGTGAGGTATATACTAAAATGAATGTAAA
ATAAGGATCGTATTCCCTGCTTTAAGGAACTGGTAGTCTTGTTTGGGTGATGAGACAAAGTTCTTGAGACATTTA
AACTGTATTTACCAGTGTGAAAAATGTCATTTATGGAGATTAATTCATTATGGAATAAAACATTGCCTAAGCCC
TTGCCTGCTG

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FIGURE 1428

MDIRKFFGVIPSGKKLVSETVKKNEKTKSDEETLKAKKGIKEIKVNSSRKEDDFKQKQPSKKKRRIYDSDSESEE
TLQVKNAKKPPPEKLPVSSKPGKISRQDPVTYISETDEEDDFMCKKAASKSKENGRSTNSHLGTSNMKKNEENTKT
KNKPLSPIKLTFTSVLDYFGTGSVQRSNKKMVASKRKELSQNTDESGLNDEAIAKQLQDDEDAELERQLHEDEEF
ARTLAMLDEEPKTKKARKDTEAGETFSSVQANLSKAEEKHKYPHKVKTAAQVSDERKSYSPRKQSKYESSKESQQHS
KSSADKIGEVSPPKASSKLAIMKRKEESSYKEIEPVASKRKENAIKLKGETKTPKKTSSPAKKESVSPEDSEKK
RTNYQAYRSYLNREGPKALGSKEIPKAENCLEGLIFVITGVLESIERDEAKSLIERYGGKVTGNVSKKTNYLVM
GRDSGQSKSDKAAALGTKIIDEDGLNLIRTMPGKKSKYEIAVETEMKKESKLERTPQKNVQGKRKISPSKKESE
SKKSREPTSKRDSLAKTIKETDVFWSLDFKEQVAEETSGDSKARNLADDSENKVENLLWVDKYKPTSLKTIIG
QQGDQSCANKLLRWLRNWQKSSSEDKKHAAKFGKFSKGDDGSSFKAALLSGPPGVGKTTTASLVCQELGYSYVEL
NASDTRSKSSLKAIVAESLNNTSIKGFYSNGAASSVSTKHALIMDEVDMAGNEDRGGIQELIGLIKHTKIPIC
MCNDRNHPKIRSLVHYCFDLRFQRPRVEQIKGAMMSIAFKEGLKIPPPAMNEIILGANQDIRQVLHNLMSWCARS
KALTYDQAKADSHRAKKDIKMGPFDVARKVFAGEETAHMSLVDKSDLFFHDYSIAPLFVQENYIHVKPVAAGGD
MKKHLMLLSRAADSICDGLVDSQIRSKQNWSSLPAQAIYASVLPGELMRGYMTQFPTFPSWLKGHSSTGKHDR
VQDLALHMSLRTYSSKRTVNMDYLSLLRDALVQPLTSQGVQDVVALMDTYLYMKEDFENIMEISSWGGKPS
FSKLDPKVKAATRAYNKEAHLTPYSLQAIKASRHSTSPSLDSEYNEELNEDDSQSDEKDQDAIETDAMIKKKTK
SSKPSKPEKDKEPRKGKGKSSKK

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FIGURE 1429A

ATAGTTCGCGTAGCGGCTCGAGCGTGGAGATGAAGCGTATTTTCTCACTGCTAGAAAAGACTTGGCTTGGCGCAC
CAATACAGTTTGCCTGGCAAAAAACATCAGGAACTACCTTGAGTAACAGGAGCTGATTATATTGTGAAAATCT
TTGATCGCCATGGTCAAAAAAGAAGTGAAATTAACCTTACCTGGTAACTGTGTTGCCATGGATTGGGATAAAGATG
GAGATGTCCTAGCAGTGATTGCTGAGAAATCTAGCTGCATTTATCTTTGGGATGCCAACACAAATAAGACCAGCC
AGTTAGACAATGGCATGAGGGATCAAATGTCTTTCCCTTCTTTGGTCAAAAGTTGGAAGTTTCCTGGCTGTTGGAA
CTGTTAAAGGAAATTTGCTTATTTATAATCATCAGACATCTCGAAAGATTCTGTCTTGGAAAAACATACTAAGA
GAATCACTTGTGGATGTTGGAATGCAGAAAATCTGCTTGCTTTAGGTGGTGAAGATAAAATGATTACAGTTAGTA
ATCAGGAAGGTGACACGATAAGACAGACACAAGTGAGATCAGAGCCTAGCAACATGCAGTTTTTCTTGATGAAGA
TGGATGACCGAACCTCTGCTGCTGAAAGCATGATAAGTGTGGTGCTTGGCAAGAAAACCTTTGTTTTTTTTAAATC
TGAATGAACCAGATAACCCAGCTGATCTTGAATTTAGCAGGACTTTGGCAACATTGTCTGCTATAATTGGTATG
GTGATGGCCGCATCATGATTGGTTTTTCATGTGGACATTTTGTGGTCATTTCTACTCATACTGGAGAGCTTGGTC
AAGAGATATTTAGGCTCGTAACCATAAAGATAATCTAACCAGCATTGCAGTATCACAGACTCTTAACAAAGTTG
CTACATGTGGAGATAACTGCATTAAAATCCAAGACTTGGTTGACTTAAAAGACATGTATGTTATACTCAACCTGG
ATGAGGAAAATAAAGGATTGGGTACCTTGTCTGGACTGATGATGGCCAGTTGCTAGCACTCTCTACCCAAAGGG
GCTCACTTCATGTTTTCTTGACCAAGCTTCCCATACTTGGGGATGCCTGCAGCACAAAGGATTGCCTATCTCACCT
CCCTCCTTGAAGTCACCGTAGCCAACCTGTTGAAGGAGAGCTACCAATCACAGTTTCTGTTGATGTGGAACCCA
ACTTTGTGGCAGTAGGTCTTTATCATCTGGCTGTAGGAATGAATAATCGAGCTTGGTTTTATGTCTTGGAGAAA
ATGCTGTGAAAAAATTGAAAGATATGGAGTATCTGGGAACAGTAGCCAGTATTTGCCTTCATTCTGACTATGCTG
CTGCACTTTTTGAAGGCAAGTCCAGTTACATTTGATAGAAAGCGAAATCTTGGATGCTCAAGAAGAACGTGAGA
CTCGGCTTTTCCAGCAGTGGATGATAAGTGCCGTATCTTATGCCATGCCTTAAGTAGTATTCTCATCTATG
GTACAGATACTGGTGTGCTTCAGTATTTCTACATTGAAGACTGGCAATTCGTTAATGATTATCGACATCCTGTCA
GTGTGAAAAAGATTTTTCCCGACCCAAATGGGACCAGATTAGTTTTTCATTGATGAAAAAGTGATGGATTGTTT
ACTGTCCAGTCAATGACGCTACCTATGAGATTCCAGATTTTTCCCAACCATTAAAGGTGTTCTTTGGGAAACT
GGCCAATGGATAAAGGTGATTTATTGCTTATGATGATGATAAGGTGTACACTTATGTCTTTCACAAGGACACTA
TACAAGGAGCCAAGGTTATTTTGGCTGGTAGCACCAAGTTCTTTTGGCTCATAAACCTTTGCTGCTATATAATG
GAGAGCTGACCTGCCAAACACAGAGTGGAAAAGTAAACAACATCTACCTTAGCACCCATGGCTTTCTCAGCAACT
TAAAAGATACGGGGCCTGACGAACTGAGACCAATGCTGGCACAGAATTTAATGCTAAAGAGGTTTTCTGATGCTT
GGGAAATGTGCAGGATTCTGAATGATGAGGCTGCCTGGAATGAGTTGGCCAGAGCTTGTCTACATCACATGGAAG
TGGAGTTTGAATCCGTGTTTATCGGAGAATTGGAATGTTGGCATAAGTATGTCTTGGAAACAAATAAAGGGAA
TAGAGGACTACAATCTTTTGGCAGGACACCTTGCCATGTTTACCAACGATTATAACCTGGCTCAGGACTTGTACC
TTGCATCCAGCTGTCTTATGCTGCCCTGGAGATGAGAAGGGATTTACAGCATTGGGACAGTGCTCTACAACCTGG
CAAAGCATTTGGCCCCAGACCAGATACCTTTTATATCAAAGAATATGCTATTCAGCTTGAATTCGCGGGTGATT
ATGTAAATGCTTTGGCTCATTATGAGAAAGGAATAACAGGTGATAATAAGGAACATGATGAAGCTTGTCTGGCTG
GAGTGGCCCAGATGTCCATAAGAATGGGAGACATACGTCGAGGGGTTAACCAAGCCCTCAAGCATCCCAGCAGGG
TCCTTAAAAGAGACTGTGGAGCCATATTGGAGAATATGAAGCAATTTTCAGAAGCGGCCCAACTGTATGAAAAAG
GTCTCTACTACGATAAAGCAGCATCTGTTTACATCCGCTCTAAGAATTGGGCAAAAGTTGGTGATCTTCTGCCCC
ACGTTTCTTCTCCTAAGATCCATTTGCAGTATGCCAAAGCCAAGGAAGCAGATGGAAGATACAAAGAAGCTGTTG
TAGCTTATGAAAATGCAAAACAGTGGCAAAGTGTAATCCGCATCTATCTGGATCACCTCAATAATCCTGAAAAAG
CTGTCAATATTGTTAGAGAGACCCAGTCTCTGGATGGAGCCAAAATGGTAGCCAGGTTTTTTCTACAGCTTGGTG
ACTATGGGTCTGCCATCCAGTTTCTTGTCTATGTCCAAATGCAACAATGAAGCTTTCACACTGGCTCAGCAACACA
ACAAAATGGAAATCTATGCAGATATTATTGGTTCTGAAGACACTACTAATGAAGACTATCAAAGCATTGCCCTTAT
ACTTTGAAGGAGAAAAGAGATATCTTCAGGCTGGAAAATCTTCTTGTGTTGGCCAATATTACAGGACTTTA
AACACTTCTGAAATGCCCAAGCTCGGAAGATAATGTGGCAATAGAAATGGCAATTGAAACTGTTGGTCAGGCCA
AAGATGAAGTGTGACCAATCAGCTGATAGACCATCTCCTGGGGGAGAACGATGGCATGCCTAAGGATGCCAAGT
ACCTGTTCCGCTTGTACATGGCTCTGAAGCAATACCGAGAAGCTGCCAGACTGCCATCATCATTGCCAGAGAAG
AGCAGTCTGCAGGCAACTACCGGAATGCACACGATGTTCTCTCAGTATGTATGCAGAACTGAAATCCCAGAAGA
TCAAAATTCCTCCGAGATGGCCACCAACCTCATGATTCTGCACAGCTATATACTAGTAAAGATTTCATGTTAAAA
ATGGAGATCACATGAAAGGGGCTCGCATGCTCATTGGGTGGCCAACAACATCAGCAAATTTCCATCACACATTG

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FIGURE 1429B

TACCCATCCTGACGTCAACTGTGATTGAGTGTACAGGGCAGGCCTGAAGAAGCTCTGCTTTCAGCTTCGCAGCTA
TGTTGATGAGGCCTGAATACCGCAGCAAAATAGATGCCAAATACAAAAAGAAGATCGAGGGAATGGTCAGGAGAC
CCGATATATCTGAGATAGAAGAGGCCACGACTCCATGTCCATTCTGCAAATTTCTTCTCCCAGAGTGTGAACTCC
TCTGTCCTGGATGTAAAAACAGTATCCCATATTGCATTGCAACAGGTCGACACATGTTGAAAGATGACTGGACGG
TGTGTCCACATTGTGACTTCCCTGCTCTATACTCAGAATTGAAGATCATGCTAAACACTGAAAGCACATGTCCTA
TGTGTTTCAGAAAGATTAAACGCTGCTCAGCTGAAAAAGATTTAGACTGTACCCAGTACCTGCGAACGGAGGAGG
AACTGTGATTGGCACGTGCAGATACAATGCTCCTGAGAAGACAGCATTTCACAGGAGGCTGTTTCTCCCTG
GTGGATTTAAGAGACGGTCCTTTCTGGATACAGAGAAATGAAACAACGGTGACCTCTCCAGGTCGGCACTTTCCA
CTTCTGTACGGTGGCAAAACGATGACATGTAACCTTGCTGTTTATTGTACTTTGTATATTATTTCTCTTCAAAG
TCTTTCTTACACACTCTATCCTCTGCACTGTTAATAGTAACCTATGACATAATTGTAAATATTCAGCTTTTGTCT
AACTTTTGTATTTTGAAAACTTTAAAATAAAATTGTTGACTAG

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FIGURE 1430

GGCACGAGGCCTGGGCGGCTCCGCTAGCTGTTTTTCGTCTTCCCTAGGCTATTTCTGCCGGGCGCTCCGCGAAGA
TGCAGCTCAAGCCGATGGAGATCAACCCCGAGATGCTGAACAAAGTGCTGTCCCGGCTGGGGGTGCGCCGGCCAGT
GGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTGCGCGCTGCTGC
TGCTGTTTTCCCCTCACGGCCCAGCATGAGAACTTCAGGAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTA
GTCCTAAAGTGTA~~CTT~~CATGAAGCAGACCATTTGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAGTGGCCA
ATAATCAAGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAAACAGAGAAAATGTCCC
CTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAGGCAGCCCATGATGCCGTGGCACAGGAAGGCC
AATGTCGGGTAGATGACAAGGTGAATTTCCATTTTATTCTGTTTAACAACGTGGATGGCCACCTCTATGAACTTG
ATGGACGAATGCCTTTTCCGGTGAACCATGGCGCCAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGGTCT
GCAGAGAATTCACCGAGCGTGAGCAAGGAGAAGTCCGCTTCTCTGCCGTGGCTCTCTGCAAGGCAGCCTAATGCT
CTGTGGGAGGGACTTTGCTGATTTCCCCTCTTCCCTTCAACATGAAAATATATACCCCCCATGCAGTCTAAAT
GCTTCAGTACTTGTGAAACACAGCTGTTCTTCTGTTCTGCAGACACGCCTTCCCCTCAGCCACACCCAGGCACTT
AAGCACAAGCAGAGTGACAGCTGTCCACTGGGCCATTGTGGTGTGAGCTTCAGATGGTGAAGCATTCTCCCCAG
TGATGTCTTGTATCCGATATCTAACGCTTTAAATGGCTACTTTGGTTTCTGTCTGTAAGTTAAGACCTTGGATG
TGGTTTAATTGTTTGTCTCAAAAGGAATAAACTTTTCTGCTGATAAGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1431

MQLKPMELNPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSPAPACALLLFLTAQHENFRKKQIEELKGQEV
SPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQAAHDAVAQEG
QCRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSEDILLKDAKVCREFTEREQGEVRFSAVALCKAA

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FIGURE 1432

GCCAAACACCAGAGCACCCCTAGAAGGTTTAACTAAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAG
GCCATGGACCCTGTCTCAGTGTGCATACCCATCTAATTACATGGAATCCATGAAGCCTAACAAGTATGGGGTCATC
TACTCCACACCATTCGCTGAGAAGTTCTTTCAGACCCAGAAAGGTCTGTGCGACGGAATACAGATGGAGCCAGTG
GACCTCACGGTGAACAAGCGGAGTTCACCCCTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCCTCA
CACCGGAGAGCCTCGCCTGGGTGAGCATGCCTTCTTCCAGCCACCGATAAAAAAATACTCACCCCTTCTCCA
GGCGTGCAGCCCTTCGGCGTGCCTGTCCATGCCACCAGTGATGGCAGCTGCCCTCTCGCGGCATGGAATACGG
AGCCCGGGGATCCTGCCCGTCATCCAGCCGGTGGTGGTGCAGCCCGTCCCTTTATGTACACAAGTCACCTCCAG
CAGCCTCTCATGGTCTCCTTATCGGAGGAGATGGAAAATTCCAGTAGTAGCATGCAAGTACCTGTAATTGAATCA
TATGAGAAGCCTATATCACAGAAAAAATTAAAATAGAACCTGGGATCGAACCACAGAGGACAGATTATTATCCT
GAAGAAATGTCACCCCCCTTAATGAACTCAGTGTCCCCCGCAAGCATTGTTGCAAGAGAATCACCCCTTCGGTC
ATCGTGCAGCCTGGGAAGAGACCTTTACCTGTGGAATCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGT
GATTATGATGGATGCAACAAAGTGTACACTAAAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAA
AAACCCTACAAATGTACATGGGAAGGGTGCACATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGA
AAACATACTGGAATCAAACCTTTCAGTGCCCGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTC
CATAGGAAACGCCACATGCTAGTCTGATTGCCTCTGTGTCTGCTCAGCGTGACTCCCCACTCACCTGGCTCTC
TCTCTGTCTGCTGCCATTCATTATCTAACACATTTTTTACATGTACATTTTAATTTGATTTCAGCTGGTCTGAATCTC
TGAATTTATATCATCCAAAACCTTCATATGGTCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGT
CAGACCTAAAGAATGTGAACACTTTTTT

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FIGURE 1433

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAG
AAGCAGTCTGATGTCACGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGG
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCAAGTGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGG
ATTTGTGTTAGCCGTGGTGGCCGAAAACGCCCAGTTCCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT
GTTAACCAGCTAAAATTTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGGGCTCT
GGGAGTCCTGAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGATCCATT
CCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGG
GCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAGGGCCATAAGTTCCACCACACTATTTGTGGTTCTCG
CCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATAACAAGTAAAGTTTGTAATAATC
ATACCTAATAAGTCTGCAGATGTTTCTTGAATGC

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FIGURE 1434

CAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAGAAGCAGTCTGATGTCA
CGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGGGCTCCCCGCCCCACCC
GGCCTGATAAAGCGCGCCAACTGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGGATTTGTGTTAGCCGTG
GTGGCCGTAACCAGCTAAAATTTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGG
GCTCTGGGAGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGG

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FIGURE 1435

GCCGCTGCCACCGCACCCGCCATGGAGCGGCCGTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCTCTCCTCTTCTCCTCTTCGGACACCTGCGGCCCTGCGAGCCGGCCTCCTGCCCCCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGGCTGCTGCCCTATGTGCGCCCGCGCGAGGG
CGAGCCGTGCGGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCCTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTGCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAGTGAAAAAAGGTGAAGGTGCCGAGCTATTAAACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAACAAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAAA

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FIGURE 1436

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTGCPCEPASCPPLPPLGCLLGETRDACGCCPMCARGEPEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGPGVSGVCVCKSRYPVCGSDGTTYPSGCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVTGAQVYLSCEVIGIPTPVLINWKVKGHYGVQRTTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEAEL

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FIGURE 1437

GGCACGAGGCTCGGGTCAAATGCGCGCCTCGGACCCTAGTGCGCGTGCGCGCTGGTGGCTCCGCCCCTTTGGAGC
TACTTCCTC**ATG**CTGCCCCGCTCGCCTACCGTTTCAAGGCTGCTGAGCCTTTTCCTTCGTGGATCCGCTCCACGGCA
GCGCGCCATGGCCTCCGGGAGCCGCTCCTGGAGAGGAGGTGCGCTGCCGCTCCTCCTTCCAGCACTCATCGAGT
CTGGGACGCGAGCTTCCTTATGACCCCGTGGACACGGAGGGCTTTGGAGAAGGTGGTGACATGCAGGAGCGTTTT
CTGTTCCCGGAGTACATCCTGGATCCGGAGCCGCAACCCACCCGCGAAAAAGCAGCTGCAGGAGCTCCAGCAACAG
CAGGAGGAGGAGGAGCGACAGAGGCAGCAGCGGCGGGAGGAGCGGCGACAGCAAAACCTACGGGCCAGGTCCCGG
GAGCACCCGGTCGTGGGGCACCCGGACCCGGCATTGCCGCCAGCGGCGTGAAGTCTCGGGCTGCGGGGCAGAG
CTGCACTGCCAGGACGCCGGAGTGCCCGGCTACCTGCCCCGAGAGAAAGTTCCCTCCGCACGGCGGAGGCAGACGGC
GGGCTGGCACGGACCGTGTGCCAGCGCTGCTGGCTGCTGTGCGACCAACGGCGCGCTCTACGCCTGCAGGTGAGC
CGCGAGCAGTACCTGGAGCTGGTGAGCGCCGCGTTGCGGGCGGCCCCGGCCCCCTCCCTGGTGCTCTACATGGTGAGC
CTGCTGGACCTGCCCGACGCCCTGCTGCCCCGACTTGCCCCGCGCTGGTGGGCCCCAAGCAGCTGATCGTGCTGGGA
AACAAAGTGGACCTCCTGCCCCAGGATGCTCCTGGCTACCGGCAGAGGCTGCGGGAGCGACTGTGGGAGGACTGT
GCCCCGCGCCGGGCTCCTGCTGGCCCCCTGGCCACCAAGGGCCACAGCGCCCCGTCAAGGACGAGCCACAGGACGGG
GAGAATCCGAATCCGCCGAAGTGGTCCCGCACAGTGGTCAGGGACGTGCGGCTGATCAGCGCCAAGACCGGCTAT
GGAGTGAAGAGTTGATCTCTGCCCTTCAGCGCTCCTGGCGCTACCGTGGGGACGTCTACTTAGTGGGCGCCACC
AACGCCGGCAAATCCACTCTCTTTAACACGCTCCTGGAGTCCGATTACTGCACTGCCAAGGGCTCCGAGGCCATC
GACAGAGCCACCATCTCCCCTTGCCAGGTAACATTAAACCTTCTGAAGTTTCCTATTTGCAACCCAACTCCT
TACAGAATGTTTAAAAGGCATCAAAGACTTAAAAAAGATTCAACTCAAGCTGAAGAAGATCTTAGTGAGCAAGAA
CAAAATCAGCTTAATGTCTCAAAAAGCATGGTTATGTGCTAGGAAGAGTTGGAAGGACATTCTTGATTTCAGAA
GAACAGAAGGATAACATTCCCTTTGAGTTTGATGCTGATTCACTTGCCCTTGACATGGAAAATGACCTGTTATG
GGTACACACAAATCCACCAACAAGTAGAATTGACTGCACAAGATGTGAAAGATGCCCACTGGTTTTATGACACC
CCTGGAATTACAAAAGAAAATTGTATTTTAAATCTTCTAACAGAAAAAGAAGTAAATATTGTTTTGCCAACACAG
TCCATTGTTCCAAGAACTTTTGTGCTTAAACCAGGAATGGTTCTGTTTTTGGGTGCTATAGGCCGCATAGATTTT
CTGCAGGGAAATCAGTCAGCTTGGTTTACAGTCGTGGCTTCCAACATCCTCCCTGTGCATATCACCTCCTTGGAC
AGGGCAGACGCTCTGTATCAGAAGCATGCAGGTCATACGTTACTCCAGATTCCAATGGGTGGAAAAGAACGAATG
GCAGGATTTCTCCTCTTGTGCTGAAGACATTATGTTAAAAAGAAGGACTGGGGGCATCTGAAGCAGTGGCCGAC
ATCAAGTTTTCTCTGCAGGTTGGGTTTACAGTAACACCTAATTTTAAGGACAGACTGCATCTCCGAGGCTATACA
CCTGAAGGAACAGTTTTGACCGTCCGGCCCCCTCTCTTGCCATATATTGTTAACATCAAAGGACAGCGCATCAAG
AAAAGTGTGGCCTATAAAACCAAGAAGCCTCCTTCCCTTATGTACAACGTGAGGAAGAAGAAAGGAAAGATAAAT
GTAT**GAG**ACCGACCTTGTTCACTCCAGATATTAAGTGTATTGAACACAACAAATACATTGAATTTGTATTAAAC
ATATAACGCATAAATAAAGCTCCCATTCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1438

MLPARLPFRLLSLFLRGSAPTAARHGLREPLLEERRCAAASSFQHSSSLGRELPYDPVDTEGFGEggDMQERFLFP
EYILDPEPQPTREKQLQELQQQEEEEERQQRQRRERERRQONLRARSREHPVVGHPDPALPPSGVNCSGCCAELHC
QDAGVPGYLPREKFLRTAEADGGLARTVCQRCWLLSHHRRALRLQVSREQYLELVSAALRRPGPSLVLYMVDLLD
LPDALLPDLPALVGPKQLIVLGNKVDLLPQDAPGYRQRLRERLWEDCARAGLLLAPGHQGPQRPVKDEPQDGENP
NPPNWSRTVVRDVRLISAKTGYGVEELISALQRSWRYRGDVYLVGATNAGKSTLFNTLLES DYCTAKGSEAIDRA
TISPWP GTTLNLLKFPICNPTPYRMFKRHQRLKKDSTQAEEDLSEQEONQLNVLKKHGYVVG RVGR TFLYSEEQK
DNIPFEFDADSLAFDMENDPVMGTHKSTKQVELTAQDVKDAHWFYDTPGITKENCILNLLTEKEVNIVLPTQSIV
PRTFVLKPGMVLF LGAIGRIDFLQGNQSAWFTVVASNILPVHITSIDRADALYQKHAGHTLLQIPMG GKERMAGF
PPLVAEDIMLKEGLGASEAVADIKFSSAGWVS VTPNFKDR LH LRGYTPEGTVLTVRPPLL PYIVNIKGQRIKKS
V
AYKTKKPPSLMYNVRKKKGKINV

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FIGURE 1439

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCAACAGTAGCGTAATGGGAGTAACGGA
CTTAACCTCATTCTCTTTTCAGAGCATTAGCCTTCATATGCCCTTCCCTGCATGCTTCCCCCAGGCCGTCAAGA
CTTGAGTTCTGCCTCGCTTCCCGGCGCGGTTCGAGCCCTCAGCCCACTTAGGATAATGGCGACAGCTGAGGTACT
GAACATTGGTAAAAAATTATATGAGGGTAAAACAAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAGTCCT
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAAACACCTGGAAGGAAAAGCTGCAATCTC
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAAAACTGCCTTCACCAGAAAATGTGG
GGAGACAGCTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGCAGAAGAATAGCAACTGGTTC
TTTTCTCAAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTACCCACCTAAAGTGGAGTTGTTTTTCAAGGA
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAATTTTGCTTTGCTGGACTTCTTAT
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTTGAAATACTGGAGAAATCCTGGTTGCC
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA
TGTTATTGACAATGATTCCTGGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG
GGACCTCAAAGAAGTAACCTCTGAAGGGCTCCAAATGGTAAAGAAAACTTTGAGTGGGTTGCAGAGAGAGTAGA
GTTGCTTTTGAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGGTCACTGTGA
AAAAATCAAGAAGGCCCTGTGGAATTTTGGCATTCCATGTGAACCTCGAGTAACATCTGCGCATAAAGGACCAGA
TGAAACTCTGAGGATTAAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG
TAATGGTTTGGGACCAGTGTGTCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCCCTCACACCAGACTG
GGGAGTTCAAGGATGTGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTAAAGCAACCATTGGTATGGAGCAAACCTGCGAGCAAGCATTTT
GAACACATGGATTTCTTGAAGCAGGCTGACAAGAAAATCAGAGAATGTAATTTATAAGAAAGAAATGCCATTGAA
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT
TAGAGAACACAAATAAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAAACATGAGCATCTAACC
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTTATCATTCTCTTACTTTATCCTTTTTCTTAA
AGTATTGGTGGTCACTACTATTGAGTTTCTTCTTAACACTGATTAAATGATCTTAACTCCCTCAGCTAAACTG
GCATTACTGACTCCCAGCTATATTTCTCCAGACTTGCATTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGTCTG
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCAGTCTGCTTTCCCTCCTGGGCTCAAGCAGTTCTCCACCT
CAGCCTCTCGACTAACAGGGACTATAATCTTGCAGCACCATGCCGAGCTAATTTTATTTTTTGTAGAGATGAGCT
CTCACTATGTCACCCAGTTTCGTCTCAAACCTCTGAACCCTAGTAATTTCTCTATCTCAGCCTCCCAAAGTGCTA
GGGTTACAGACATGAGCCACTGTGCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCATG
GGCACTCATGAAAAAACAGAATGCTCCCAACTTTATTCATCTTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT
GCAAGTCAGAAGCTTGATTTTCATCATTGATGTTTTTCTCACGTTTCACATCTCACTCATCACCAAGTCATGTTGG
TGTTAATTTCTGATTAACCCCTGAATTTACCGTCTTCTCATCTCTGTACAAAAGCCTCAAGTGAGGGTCAAATT
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCCTTTTCCAAGTTGATTGCCCAAGGACTTCTAAC
AATAAACTCTCTTTTGCACCACAGACTTCTTTGAAAATATACATGCTGTTGACCCCTCTCTGTAGAAAACCGCACA
CATAAACTTACCAACAGATTTTCATTGGTTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAGAATT
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG
AGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAGTAGCCAGC
CGTGATGACAGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTAGATCATGCCACTGCACTCCAACCTGGGCAGCAGCAAGACTCTGTCTCAAAGGGGAA
AAAAAAATTTGCTGATGTGACCCATGAAGGGAACCTCATTTTCTCGTAATTTTGGACTGCCACACATTGGTACCT
TTAGTTCTCTGAAGGCCACGTTTTTATCATTAAAGACCTATTTGTTAGCTAGTAGAGCTTTATGTTTCGCTGTCCA
TGAAACCTTCTGTAACCACAGTGACTACAAGTAGTTCTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT
CATTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTCAGAGATTAGTA
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAGGACTTAGAA
GATTAA

1557/6881
FIGURE 1440A

TCGGGAAGGAAGAGCCTGTGCGAGCGCGAGCTTCTGAGCTCGACGGGCCGAGCTGGCAGCTGGTTGGTGCTTAC
ACCTTGGCCGCAGCGGCAGGTCCTTCCACGTGCTTTTCGGCGGCGACATGGAGCTGGAGGAGTTGGGGATCCGAGA
GGAATGTGGCGTGTTTCGGGTGCATCGCCTCAGGAGAGTGGCCCCAGCAGCTGGATGTACCGCATGTGATCACTCT
GGGACTCGTGGGGCTGCAGCACCAGGGGTGAGGAGAGTGTGGTATTGTGACTAGTGATGGGAGTTCCGGTGCCAAAC
ATTCAAATCACACAAGGGAATGGGTCTTGTAATCACGTCTTTACTGAAGACAATTTGAAAAAATTATATGTTTC
AAATCTTGGAATTGGACACACCAGGTATGCCACCACAGGAAAATGTGAACTAGAAAAATTGTCAGCCCTTCGTTGT
TGAAACACTTCATGGGAAGATAGCTGTGGCACATAATGGCGAATTGGTAAATGCTGCTCGATTAAAGGAAAAGCT
TCTGCGTCATGGTATTGGTCTGTCTACAAGTTCTGATAGTGAAATGATTACCCAGTTACTGGCGTATACCCCTCC
TCAGGAACAAGATGACACCCAGACTGGGTAGCCAGGATTAAAAAATTGATGAAGGAAGCACCCACAGCATACTC
CCTGCTTATAATGCACAGAGATGTTATTTATGCAGTACGAGATCCTTATGGAATCGTCCCTTATGCATTGGTTCG
TCTTATTCCAGTGTCTGATATAAATGACAAAGAGAAAAAACATCAGAAACAGAAAGGATGGGTGGTGTCTTCAGA
ATCTTGTAGCTTCTTATCTATTGGTGCAAGATATTACCGTGAAGTCTTGCCCTGGAGAAATTGTGGAAATATCCAG
ACACAATGTCCAAACTCTTGATATTATATCAAGGTCTGAAGGAAACCCAGTGGCTTTTTGTATCTTTGAATATGT
TTATTTTGAAGACCAGACAGTATGTTTGAAGACCAAATGTTTTATACAGTAAGATACCGTTGTGGCCAGCAGCT
AGCGATTGAAGCACCTGTGGATGCAGATTTGGTTAGCACTGTTCCAGAATCTGCTACGCCTGCTGCTCTTGCTTA
CGCAGGAAAGTGTGGACTTCCATATGTGGAGGTGCTGTGTAAAAACCGGTATGTAGGGAGAACCTTCATTACGCC
AAACATGAGGTTAAGACAACCTTGGTGTGCAAAAAAATTTGGAGTATTGTCAGACAACTTTAAAGGCAAAAGAAT
TGTTCTTGTAGATGATTCAATTGTCAGAGGCAATACCATCTCACCTATAATAAACTGCTCAAAGAATCTGGTGC
AAAAGAGGTACACATTCGAGTAGCTTACCACCAATTAAATATCCATGCTTCATGGGAATAAACATTCTACAAA
AGAAGAGCTCATTGCCAATAAACAGAAATTTGATCACCTTGAGAATATCTAGGAGCAAACAGTGTGTGTATCT
GTCAGTAGAAGGACTGGTTTCATCTGTACAAGAAGGGATAAAGTTTAAAAAACAGAAAGAGAAAAAGCACGATAT
TATGATCCAAGAAAATGGAATGGTCTGGAATGTTTTGAAAAGAGTGGTCATTGTACAGCTTGTCTCACTGGAAA
ATATCCTGTAGAATTAGAATGGTAGCTGGTAGGGTTGGATGTGTGTAGTTTCAAGATAGAAAGTTGGTCAAGAAG
TTATAGTGGTCACACCTCATCTATTTACTGTTACTCAGTTGGTACAATGTAAAATGCCATGCTTATGTTTATAAG
TTTTGAGATTTTTTTTTTTTTCTGAAAAGGATACCAAAGTGCGATAACTGAACATTTCCAATTGCATATAATACAA
CAATATGTGGTGTCTTTTTTTTTTACACAAGCATTGGCTAGCCTTTTTAACTGGTCAGAGAAGGCAGGTGGTCAC
TGACATTTCCCAAGTCCATGCTTTAAAGGGTTTGCAAGAAGTTAGGGTTAAGGAGAGGTGATGCCAACAAGACAG
GTGAGTTAAATATACCATTTACACAAAGTTGAATAGAATACATTATACCTCATAGGTGTCTAGCCTCTACAGT
TCTGGCTGTAGTTATGACCTTGGCTTCCCTGTCTAACTGTAGACAAAATCTTTAAAAAAAATAATAATAATCTGG
TGCCCTCAGTTTCCCCACATGTGCAATGGGATACTTATTAAATAATTAATAAGAATGTGAATAAGTGTACATCTT
TGTGATTTGAGCCATCATTTCACTTCTGATTTTAAAGACAACCTCATGATTGTTAGCTTTTCAGAAAGCTAATGATTG
TTAACTTTTTGAAATTAGTTTACAATTAATTAAGATTTTATTATGATGGAAGGAGACATAATTGGCAGATCTTTG
CCATCTCTCTTTGAGATGTCCTAAAAAGGGTTGTAAAAATCTGTGAAAAAGTTTTTCTACATTTGACTAGAAAA
TGTGATCCATAGTATTTAGTGCCCTGATACTATAAGCTCAGCAAGTAACCTGGTACATTTGAAATAAAAAACCAA
TTTTTAGATTCAAACAATCCCTTTATCCTTAATTTAATTAATATCATATGCTTTTTTTAATGAAGTGCTTGATC
ACTTGCAAAACATATATACATGTAGATGTACATATACATGTACACATACACATAAATATTATTGCAATTAAGTGAT
CAAGTACAGACACAATAGGGGCCAGTTTTGTTTAAAGGATCAAAGAGACAACCCTTTGGGGAATTAGTATCAACT
TACAATCCAAGTCCAAGTATCATCTTATAATCACTTTTTTCTACTATATTAAGATCTAATGAATTTGATTTCTTT
TTTGAAGTTTTTTCTTGTAAACATCTGAGATTAGAAGTTTAAAGTACTTGACCCCAAACCTTTGTTTATGTAAGA
ATTTTTAAACATAAAAAGTGTGTTTCTGTTATGTTACCATAATTTGATGTATATAGTGTCCAGATCCATTTAGA
AATTTAATATTTATTAATAACTGAACTGTTTGTCTTCCCTTGGTATATAGTCTCGCATATTATATTATAGCAGG
CCAAGATAAAAATTTGACAGCTCTTTAAGCCACATGCAGCAGTGGGTGAGATAACCTGTGGCAGTGACACGGG
CAAATTGGCATTGAATAAAGCCCTGGGACCACCTCAACATGCGTAGCCTCTTGTCTTAAATGTACTCCCCATGG
CAGCATGGAGGAGGCAAGACCTGTGGGTCAATTTGAACTGGCCTTACTTTGATTTTTAAACAAGAGACTCAGG
GAAAGTACTAAACCAAAATCTCTGATTTTACTTTGCGTTTCTGTAGTTTTTGTGTTTACTGAGATGCTTTTGTA
AGGAAAATAAATCTGTGACAGTTTAGTAATTCTACAGATTCTTAATATTTCTCCATCATGGCCTTTTACTTCACA
ATTTTCTGAAGTCTGAATTCATTAACAATTTTTTTTTTACCAATTTAATCTCAAATGTTGTTTAACTGCTTTAAAT
TCATATACGTAGAGTATTATAAACTGCAGAGATGAAAAATGTGTTTTACGGGATTTATATTGTGAACATAACTA

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FIGURE 1440B

AGCCTACTTTTTGTGACTTATTTGTGATGCCTTGTTGATAAATATGTGTAATAAGTATGTTT

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FIGURE 1441

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTTAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA
GAAGACTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCAAGAAGGGGAAGCCCCGTTG
CAGCCGCAACCCTGTCCTTGTCAGAGGAATTGGCAGGTATTCCCGATCTGCCATGTATTCCAGAAAGGCCATGTA
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA
ACCAGTTGGTGGTGACAAGAACGGCGGTACCCGGGTGGTTAACTTCGCAAAATGCCTAGATATTATCCTACTGA
AGATGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAAAACCCTTCAGTCAGCACGTGAGAAAACGCGAGCCAG
CATTACCCCGGGACCATCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCT
GGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTATGAAGAACACACCAGAAATT
TGTCATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAA
GAAGAAGCAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGGGAAATATGAGATTAC
GGAGCAGCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTTATCAAAAATCAAAGCTATTCTCAGCTCCA
GGGCTAGTTGCGATCTGTGTTTGCCCTGACGAATGGAATTTATCCTCACAATTGGTGTCTAAATGTCTTAAGA
ACCTAATTAAATAGCTGACTAC

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FIGURE 1442

GTTTTTAGTTTGTAGCTGCCTGGAGTGTTATTTTAAGAAAGCAGAAGCACCATCATTTCACACTCCTTATAGA
TCACACACCTTAACCCTGACTTTTTTTGCTCCAGTTTTTTCAGAAGAAGTGAAGTCAAGATGAAGAACCATTGCT
TTTCTGGGGAGTCCTGGCGGTTTTTATTAAGGCTGTTTCATGTGAAAGCCCAAGAAGATGAAAGGATTGTTCTTGT
TGACAACAAATGTAAGTGTGCCCGGATTACTTCCAGGATCATCCGTTCTTCCGAAGATCCTAATGAGGACATTGT
GGAGAGAAACATCCGAATTATTGTTCCCTCTGAACAACAGGGAGAATATCTCTGATCCCACCTCACCATTGAGAAC
CAGATTTGTGTACCATTGCTGTGACCTCTGTAAAAAATGTGATCCTACAGAAGTGGAGCTGGATAATCAGATAGT
TACTGCTACCCAGAGCAATATCTGTGATGAAGACAGTGCTACAGAGACCTGCTACACTTATGACAGAAACAAGTG
CTACACAGCTGTGGTCCCACTCGTATATGGTGGTGAGACCAAAATGGTGGAACAGCCTTAACCCAGATGCCTG
CTATCCTGACTAATTTAAGTCATTGCTGACTGCATAGCTCTTTTTCTTGAGAGGCTCTCCATTTTGATTCAGAAA
GTTAGCATATTTATTACCAATGAATTTGAAACCAGGGCTTTTTTTTTTTTTTGGGTGATGTAAACCAACTCCCT
GCCACCAAATAAATAAATAGTCACATTGTTATCTTTATTAGGTAATCACTTCTTAATTATATGTTCACTCT
AAGTATCAAAATCTTCCAATTATCATGCTCACCTGAAAGAGGTATGCTCTCTTAGGAATACAGTTTCTAGCATT
AACAAATAAACAAGGGGAGAAAATAAACTCAAGGACTGAAAATCAGGAGGTGTAATAAAATGTTCCCTCGCATT
CCCCCGCTTTTTTTTTTTTTTTGACTTTGCCTTGGAGAGCCAGAGCTTCCGCATTTTCTTTACTATTCTTTT
AAAAAAGTTTCACTGTGTAGAGAACATATATGCATAAACATAGGTCAATTATATGTCTCCATTAGAAAAATAAT
AATTGGAAAACATGTTCTAGAACTAGTTACAAAAATAATTTAAGGTGAAATCTCTAATATTTATAAAAGTAGCAA
AATAAATGCATAATTAAAAATATTTGGACATAACAGACTTGAAGCAGATGATACAGACTTCTTTTTTTCATAA
TCAGGTTAGTGTAAGAAATTGCCATTTGAAACAATCCATTTTGTAAGTGAACCTTATGAAATATATGTATTTTCAT
GGTACGTATTCTCTAGCACAGTCTGAGCAATTAAATAGATTCATAAGCATA

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FIGURE 1443

GGTGCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCCTGGTACTACTGCTTGCTGTGGCATTGACATGCT
TTAGAGAGAGGCCGGGATTATGAAAAGAATAAAGTCTGCAAGGAATTCTCCCATCTGGGAAAGGAGGACTTCACA
TCTCTGTCACTAGTCCTGTACAGTAGAAAAATTTCCAGTGCGCACGTTTGAACAGGTCAGCCAACTTGTGAAGGAA
GTTGTCTCCTTGACCGAAGCCTGCTGTGCGGAAGGGGCTGACCCCTGACTGCTATGACACCAGGACCTCAGCACTG
TCTGCCAAGTCCTGTGAAAGTAATTCTCCATTCCCCGTTACCCAGGCACTGCTGAGTGCTGCACCAAAGAGGGC
CTGGAACGAAAGCTCTGCATGGCTGCTCTGAAACACCAGCCACAGGAATTCCCTACCTACGTGGAACCCACAAAT
GATGAAATCTGTGAGGCGTTTCAAGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATTCCACTAAT
TACGGACAAGCTCCTCTGTCACTTTTAGTCAGTTACACCAAGAGTTATCTTTCTATGGTAGGGTCCTGCTGTACC
TCTGCAAGCCCAACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCCTCTGTCA
AATAGAGTCTGCTCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAAGTTAGCCCAA
AAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTACTAACATCCTCTCCAAATGCTGT
GAGTCTGCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAACACACAGTAAACTCTGTGACAATTTATCCACA
AAGAATTCTAAGTTTGAAGACTGTTGTCAAGAAAAACAGCCATGGACGTTTTTGTGTGCACTTACTTCATGCCA
GCTGCCCAACTCCCCGAGCTTCCAGATGTAGAGTTGCCACAAACAAAGATGTGTGTGATCCAGGAAACACCAAA
GTCATGGATAAGTATACATTTGAACATAAGCAGAAGGACTCATCTTCCGGAAGTATTCTCAGTAAGGTACTTGAG
CCAACCCTAAAAAGCCTTGGTGAATGCTGTGATGTTGAAGACTCACTACCTGTTTTAATGCTAAGGGCCCTCTA
CTAAAGAAGGAACCTATCTTTCTTTTATTGACAAGGGACAAGAACTATGTGCAGATTATTCAGAAAATACATTTACT
GAGTACAAGAAAAAACTGGCAGAGCGACTAAAAGCAAAATTGCCTGATGCCACACCCACGGAACCTGGCAAAGCTG
GTTAACAAGCACTCAGACTTTGCCTCCAACCTGCTGTTCCATAAACTCACCTCCTCTTTACTGTGATTTCAGAGATT
GATGCTGAATTGAAGAATATCCTGTAGTCTGAAGCATGTTTATTAACCTTTGACCAGAGTTGGAGCCACCCAGGG
GAATGATCTCTGATGACCTAACCTAAGCAAAACCACTGAGCTTCTGGGAAGACAACCTAGGATACTTTCTACTTTT
TCTAGCTACAATATCTTCATACAATGACAAGTATGATGATTGCTATCAAAATAAATTGAAATATAATGCAAACC
AT

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FIGURE 1444

MKRVLVLLLAFAFGHALERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACC
AEGADPDCYDTRTSALSAKSCESNSPFPVHPGTAECCCKEGLERKLCMAALKHQEQEFPTYVEPTNDEICEAFRK
DPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSELLTTLNVRVCSQYAA
YGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCC
QEKAMDVVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMKDYTFELSRRTHLPEVFLSKVLEPTLKSLGEC
CDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKKKLAERLKAKLPDATPTLAKLVNKHSDFAS
NCCSINSPPLYCDSEIDAELKNIL

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FIGURE 1445

AGCTTTTCTCTTCTGTCAACCCACACGCCTTTGGCACAATGAAGTGGGTAACCTTTATTTCCCTTCTTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTCGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCATTGGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
AAATCACTTCATACCCTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAAACCTATGGTGAAATGGCT
GACTGCTGTGCAAAACAAGAACCCTGAGAGAAATGAATGCTTCTTGCAACACAAAAGATGACAACCCAAACCTCCCC
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTGA AAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCGGAACCTCTTTTCTTTGCTAAAAGGTATAAAGCT
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAGCTCGATGAACCTCGGGATGAA
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAATTTGGAGAAAGAGCTTTCAAAGCA
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGAGAAGTTTCCAAGTTAGTGACAGATCTT
ACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
ATCTGTGAAAATCAAGATTGATCTCCAGTAACTGAAGGAATGCTGTGAAAACCTCTGTTGAAAAATCCCAC
TGCATTGCCGAAGTGGA AAAATGATGAGATGCCTGCTGACTTGCTTCATTAGCTGCTGATTTTGTGAAAGTAAG
GATGTTTGTCAAAAACATATGCTGAGGCAAAGGATGTCTTCTGGGCATGTTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGTGCTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTGATGAATTTAAACCTCTTGTTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTGTAGCAGCTTGGAGAGTACAAATTCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGCTCAACTCCAACCTCTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCTCTGAACCAGTTATGTGTGTTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAACTGCACTTGTTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTGCGAGCTTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAACTTGTTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCAC
ATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAAGCTTATTCATCTGTTTTTC
TTTTTCGTTGGTGTAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTTCCAGTGTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC
TTGTGGGCTAATTAAATAAATCATTAATACTCTTCTAAGTT

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FIGURE 1446

TCCATATTGTGCTTCCACCACTGCCAATAACAAAATAACTAGCAACCATGAAGTGGGTGGAATCAATTTTTTTTAA
TTTTCTACTAAATTTTACTGAATCCAGAACACTGCATAGAAATGAATATGGAATAGCTTCCATATTGGATTCTT
ACCAATGTACTGCAGAGATAAGTTTAGCTGACCTGGCTACCATATTTTTTGCCAGTTTGTTCAGAAGCCACTT
ACAAGGAAGTAAGCAAAATGGTGAAAGATGCATTGACTGCAATTGAGAAACCCACTGGAGATGAACAGTCTTCAG
GGTGTTTAGAAAACCAGCTACCTGCCTTTCTGGAAGAACTTTGCCATGAGAAAGAAATTTTGAGAGAGTACGGAC
ATTGAGACTGCTGCAGCCAAAGTGAAGAGGGAAGACATAACTGTTTTCTTGACACAAAAAGCCCACTCCAGCAT
CGATCCCACTTTTCCAAGTTCAGAACCTGTCACAAGCTGTGAAGCATATGAAGAAGACAGGGAGACATTCATGA
ACAAATTCATTTATGAGATAGCAAGAAGGCATCCCTTCTGTATGCACCTACAATTCTTCTTTGGGCTGCTCGCT
ATGACAAAATAATTCCATCTTGCTGCAAAGCTGAAAATGCAGTTGAATGCTTCCAAACAAAGGCAGCAACAGTTA
CAAAAGAATTAAGAGAAAAGCAGCTTGTTAAATCAACATGCATGTGCAGTAATGAAAAATTTTGGGACCCGAAGTT
TCCAAGCCATAACTGTTACTAACTGAGTCAGAAGTTTACCAAAGTTAATTTTACTGAAATCCAGAACTAGTCC
TGGATGTGGCCCATGTACATGAGCACTGTTGCAGAGGAGATGTGCTGGATTGTCTGCAGGATGGGGAAAAATCA
TGTCTTACATATGTTCTCAACAAGACACTCTGTCAAACAAAATAACAGAATGCTGCAAACTGACCACGCTGGAAC
GTGGTCAATGTATAATTCATGCAGAAAATGATGAAAAACCTGAAGGTCTATCTCCAAATCTAAACAGGTTTTTAG
GAGATAGAGATTTTAACCAATTTTCTTCAGGGGAAAAAATATCTTCTTGGCAAGTTTTGTTCATGAATATTCAA
GAAGACATCCTCAGCTTGCTGTCTCAGTAATTCTAAGAGTTGCTAAAGGATACCAGGAGTTATTGGAGAAGTGTT
TCCAGACTGAAAACCTCTTGAATGCCAAGATAAAGGAGAAGAAGATTACAGAAATACATCCAGGAGAGCCAAG
CATTGGCAAAGCGAAGCTGCGGCCTCTTCAGAACTAGGAGAATATTACTTACAAAATGCGTTTCTCGTTGCTT
ACACAAAGAAAGCCCCCAGCTGACCTCGTCGGAGCTGATGGCCATCACCAGAAAAATGGCAGCCACAGCAGCCA
CTTGTTGCCAACTCAGTGAGGACAACTATTGGCCTGTGGCGAGGGAGCGGCTGACATTATTATCGGACACTTAT
GTATCAGACATGAAATGACTCCAGTAAACCCTGGTGTGGCCAGTGCTGCACTTCTTCATATGCCAACAGGAGGC
CATGCTTCAGCAGCTTGTTGGTGGATGAAACATAIGTCCCTCCTGCATTCTCTGATGACAAGTTCATTTTCCATA
AGGATCTGTGCCAAGCTCAGGGTGTAGCGCTGCAAACGATGAAGCAAGAGTTTCTCATTAACCTTGTGAAGCAAA
AGCCACAAATAACAGAGGAACAACTTGAGGCTGTCATTGCAGATTTCTCAGGCCTGTTGGAGAAATGCTGCCAAG
GCCAGGAACAGGAAGTCTGCTTTGCTGAAGAGGGACAAAACTGATTTCAAAAACCTCGTGCTGCTTTGGGAGTTT
AAATTACTTCAGGGGAAGAGAAGACAAAACGAGTCTTTCATTCCGGTGTGAAGTTTCTCTTTAATTTTAACTGAT
TTAACACTTTTTGTGAATTAATGAAATGATAAAGACTTTTATGTGAGATTTCTTATCACAGAAATAAAATATCT
CCAAATG

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FIGURE 1447

MKWVESIFLIFLLNFTESTRTHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIE
KPTGDEQSSGCLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTPASIFLQVPEPVTSC
YEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACA
VMKNFGTRTFQAITVTKLSQKFTKVNFTETIQKLVLDAHVHEHCCRGDVLDCLDGEEKIMSYICSQQDTLSNKIT
ECCKLTTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAK
GYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSELMAI
TRKMAATAATCCQLSEDKLLACGEGAADIIIGHLCIRHEMTPVNPVGVCCTSSYANRRPCFSSLVDETYVPPA
FSDDKFIFHKDLCQAQGVALQTMKQEFLLNLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCFEAEQGKLI
SKTRAALGV

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FIGURE 1448A

TCACCTTGCTGATATTTCCAGTGTGACAGGGACACAGCCAACGTGGGGTCCCTTCTAGGCTGACAGCCGCTCTCC
AGCCACTGCCGCGAGCCCGTCTGCTCCCGCCCTGCCCGTGCACCTCTCCGCAGCCGCCCTCCGCCAAGCCCCAGCG
CCCCGCTCCCATCGCCGATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGCTGCTGCT
CTGCCTGGGTTTCCATCTTCTACAGGCAGTCCTCAGTACAACGTGTGATTCCATCATGTATCCCAGGAGAGTCCAG
TGATAACTGCACAGCTTTAGTTTCAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTC
TGACATGAATGGCTATTGTTTGCATGGACAGTGCATCTATCTGGTGGACATGAGTCAAACTACTGCAGGTGTGA
AGTGGGTTATACTGGTGTCCGATGTGAACACTTCTTTTTAACCGTCCACCAACCTTTAAGCAAAGAATATGTGGC
TTTGACCGTGATTCTTATTATTTTGTTCCTTATCACAGTCTGCGTTCCACATATTATTTCTGCAGATGGTACAG
AAATCGAAAAAGTAAAGAACCAGGAAGGAATATGAGAGAGTTACCTCAGGGGATCCAGAGTTGCCGCAAGTCTG
AATGGCGCCATCAAACTTATGGGCAGGGATAACAGTGTGCCTGGTTAATATTAATATTCCCATTTTATTAATAAT
ATTTATGTTGGGTCAAGTGTAGGTCAATAACACTGTATTTTAATGTACTTGAAAAATGTTTTTATTTTGT
ATTTTGTACAGACTATTTGCTAATGTATAATGTGCAGAAAATATTTAATATCAAAAAGAAAATTGATATTTTATA
CAAGTAATTTTCTGAGCTAAATGCTTCATTGAAAGCTTCAAAGTTTATATGCCTGGTGCACAGTGTAGGAAGTA
AGCAATTTCCAGGTCATAGCTCAAGAATTGTTAGCAAATGACAGATTTCTGTAAGCCTATATATATAGTCAAATC
GATTTAGTAAGTATGTTTTTATGTTCTCAAATCAGTGATAATTGGTTTACTGTACCATGGTTTGATATGTAG
TTGGCACCATGGTATCATATATTAACAATAATGCAATTAGAATTTGGGAGAAGCAAATATAGGTCCTGTGTTA
AACACTACACATTTGAAACAAGCTAACCTGGGGAGTCTATGGTCTCTTCACTCAGGTCTCAGCTATAATTCTGT
TATATGAGGGGCGAGTGGACAGTTCCTATGCCAACTCACGACTCCTACAGGTACTAGTCACTCATCTACCAGATT
CTGCCTATGTAAAATGAATTGAAAAACAATTTCTGTAATCTTTTATTTAAGTAGTGGGCATTTTCATAGCTTCAC
AATGTTCTTTTTTTGTATATTACAACATTTATGTGAGGTAATTATTGCTCAACAGACAATTAGAAAAAGTCCAC
ACTGAAGCCTAAATTTGTGCTTTTAAAGAATATTTTACTATTTCTTTTTATAGGGGCTTTGCTGAATTCTA
ACATTAATACAGCCCCAAATTTGATGGACTAATTATTATTTTAAATATATGAAGACAATAATTCTACATGTT
GTCTTAAGATGGAAATACAGTTATTTTCATCTTTTATTCAAGGAAGTTTTAACTTTAATACAGCTCAGTAAATGGC
TTCTTCTAGAATGTAAAGTTATGTATTTAAAGTTGTATCTTGACACAGGAAATGGGAAAAAACTTAAAAATTAAT
ATGGTGTATTTTTCCAAATGAAAAATCTCAATTGAAAGCTTTTAAATGTAGAACTTAAACACACCTTCCTGTG
GAGGCTGAGATGAAAACTAGGGCTCATTTTCTGACATTTGTTTATTTTTTGAAGAGACAAAGATTTCTTCTGC
ACTCTGAGCCCATAGGTCTCAGAGAGTTAATAGGAGTATTTTGGGCTATTGCATAAGGAGCCACTGCTGCCACC
ACTTTTGGATTTTATGGGAGGCTCCTTCATCGAATGCTAAACCTTTGAGTAGAGTCTCCCTGGATCACATACCAG
GTCAGGGAGGATCTGTTCTTCTCTACGTTTATCCTGGCATGTGCTAGGGTAAACGAAGGCATAATAAGCCATGG
CTGACCTCTGGAGCACCAGGTGCCAGGACTTGTCTCCATGTGTATCCATGCATTATATACCCTGGTGCATCACA
CGACTGTCATCTAAAGTCTGGCCCTGGCCCTTACTATTAGGAAAATAAACAGACAAAAACAAGTAAATATATAT
GGTCATATACATATTGTATATATATTATATACAAACATGTATGTATACATGACCTTAATGGATCATAGAATTGC
AGTCATTTGGTGTCTGTCTAACCATTTATATAAACTTAAAAACAAGAGAAAAGAAAAATCAATTAGATCTAAAC
AGTTATTTCTGTTTCTTATTTAATACAGCTGAAGTCAAAATATGTAAGAACACATTTTAAATACTCTACTTACAG
TTGGCCCTCTGTGGTTAGTTCCACATCTGTGGATTCAACCAACCAAGGACGGAAAATGCTTAAAAAATAATACAA
CAACAACAAAAATACATTATAACAACATTTTACTTTTTTTTTTCTTTTTTGAGATGGAGTCTCGCTCTGTTGC
CCAGGTTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAACCTCACCTCCCGGGTTCAAGAGATCCTCCTGCCTC
AGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCCACCATGCCAGCTAATTTTTGTATTTTGTAGAGGCGGG
GTTTCACCATGTTGGCCAGGATGGTCTCAATCTCCTAACCTTGAGATCCACCCTCCACAGCCTCCCAAACCTGCTG
GGATTACAGGTGTGAGCCACCGCACGTAGCATTTACATTAGGTATTACAAGTAATGTAAAGATGATTTAAGTATA
CAGGAGGATGTGAATAGGTTATATGCAAGCACTATGCCCTTTATATAAGTGAAGTGAACATCTGTGCCCCGATTT
TAGTATGTGCAGGGGGGCGATCTGGGAATCAGTCCCCTGTGGATACCAAGGTACAACCTGTATTTATTAACGCTTA
CTAGATGTGAGGAGAGTCTGAATATTTTCAAGTATCTTGGCTGTTTCAAAAAATCTATTGACTTTTCAATAAAT
CAGCTGCAATCCATTTATTTTCAAAAAGATTTATTGTAAGCATCTCAATCTTGGTTTGTGAGTTTATCTTA
AGCATGTCAATTCATAAAAACAAGTCATTTTGTATTTTTCATCTTTAAGAATGCTTAAAAAAGCTAATCCCTAA
AATAGTTAGATCTTTGTAAATGCATATTAAATAATAAAGTATGACCCACATTACTTTTTATGGGTGAAAATAAGA
CAAAAATAATAGTTTGTAGGATGGTGTGAGTAAACATAAAAACTGATTTGCTCTCAGCTGATGTGCTCTGT
ACACAGTGGGAAGATTTTAGTTCACTTAGTCTAACTCCCCCATTTTACAGATTTCTCACTATATATATTTCTA

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FIGURE 1448B

GAAGGGGCTATGCATATTCAATGTATTGAGAACCAAAGCAACCACAAATGCATAAATGCATAATTTATGGTCTTC
AACCAAGGCCACATAATAACCCAGTTAACTTACTCTTTAACCAGGAATATTAAGTTCTATAACTAGTACTCAAGG
TTTAACCTTAAAATTAAGATTTCCCTAACCTTAACCTTAAAATTGATATTATATTAAACATACATAATAACAATGT
AACTCCACTGTTCTCCTGAATATTTTTTGCTCTAATCTCTCTGCCGAAAGTCAAAGTGATGGGAGAATTGGTATA
CTGGTATGACTACGTCTTAAGTCAGATTTTTATTTATGAGTCTTTGAGACTAAATTCAATCACCACCAGGTATCA
AATCAACTTTTATGCAGCAAATATATGATTCTAGTGTCTGACTTTTGTTAAATTCAGTAATGCAGTTTTTAAAAA
CCTGTATCTGACCCACTTTGTAATTTTTTGCTCCAATATCCATTCTGTAGACTTTTGAAAAAAAAGTTTTTAATTT
GATGCCCAATATATTCTGACCGTTAAAAAATTCTTGTTTATATGGGAGAAGGGGGAGTAATGACTTGTACAAACA
GTATTTCTGGTGTATATTTAATGTTTTTAAAAAGAGTAATTTCAATTTAAATATCTGTTATTCAAATTTGATGAT
GTTAAATGTAATATAATGTATTTCTTTTTATTTTGCACCTCTGTAATTGCACTTTTTAAGTTTGAAGAGCCATTT
TGGTAAACGGTTTTTTATTAAAGATGCTATGGAACATAAAGTTGTATTGCATGCAATTTGAAGTAACCTTATTGAC
TATGAATGTTATCGGATTACTGAATTGTATCAATTTGTTTGTGTTCAATATCAGCTTTGATAATTGTGTACCTTA
AGATATTGAAGGAGAAAAATAGATAATTTACAAGATATTATTAATTTTTATTTATTTTTCTTGGAATTGAAAAA
ATTGAAATAAAATAAAAAATGCATTGAACATCTTGCATTCAAATCTTCACTGAC

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FIGURE 1449

CCCGCGAGCGGACGCGGCAGCGCCTCTGTCTCGCTTTTTCTTATTTTTCCCCCCTTTCCCCTTTCTTTTTTTTTT
TTTCTTTTCTTTTCTCCCCCTCCCCCCTTTTACCATTTCCTCGGAGGCGCTTTCCCGGGCAGGGGCAGAGCC
GGTCTCACCCCCCGCCTCTCCCCGGCCCCCGCGCCCTATGGCGAGAGGGAGCCCCCTCCAACCCGGGCTCGAG
CGGCGGCGGCCTCAGGCCGGGGTTCATCATGGAATAATTGCTGACCGACCCAGCGGCCGAGCCGTGCGTCCC
GCTCGAGCGCCAGCGCCCCGCGCCCCGCGCCCCCGATCCGCTTCCCCTTTCTCCCTCCTCAGTTGGCCGAGTCGTC
CCGCGCGCACCGCCTCCGCGCGCCTATGAGAATGAGGTGGTAACGGGCCCCCGGATGACCCCGCGTCACCACTGT
GAGGCCTACAGCTCTGCCGGGAGGAGGAGGAGGAGGAAGAGGAGGAGAAGGTAGCTACAGCAAGCTGGGTAGCA
GGCAGATCCAAAGGATATCATGAAGTTTCCAGGGCCTTTGGAAAACCAGAGATTGTCTTCTGTTGGAAAAGGC
AATCACTAGGGAAGCACAGATGTGGAAAGTGAATGTGCGGAAAATGCCTTCAAATCAGAATGTTTCTCCATCCCA
GAGAGATGAAGTAATTCAATGGCTGGCCAACTCAAGTACCAATTCAACCTTTACCCAGAAAACATTGCTCTGGC
TAGCAGTCTTTTGGATAGGTTTTTAGCTACCGTAAAGGCTCATCCAAAATACTTGAGTTGTATTGCAATCAGCTG
TTTTTCTCTAGCTGCCAAGACTGTTGAGGAAGATGAGAGAATTCCAGTACTAAAGGTATTGGCAAGAGACAGTTT
CTGTGGATGTTCTCATCTGAAATTTTGAGAATGGAGAGAATTATTCTGGATAAGTTGAATTGGGATCTTCACAC
AGCCACACCATTGGATTTTCTTCATATTTTCCATGCCATTGCAGTGTCAACTAGGCCTCAGTTACTTTTCAGTTT
GCCCAAATTGAGCCCATCTCAACATTTGGCAGTCCTTACCAAGCAACTACTTCACTGTATGGCTGCAACCAACT
TCTGCAATTCAGAGGATCCATGCTTGCTCTGGCCATGGTTAGTCTGGAAATGGAGAAACTCATTCTGATTGGCT
TTCTCTTACAATTGAACTGCTTCAGAAAGCACAGATGGATAGCTCCAGTTGATCCATTGTCGGGAGCTTGTGGC
ACATCACCTTTCTACTCTGCAGTCTTCCCTGCCTCTGAATTCGTTTATGTCTACCGTCCCCCTCAAGCACACCCT
GGTGACCTGTGACAAAGGAGTGTTTCAATTACATCCCTCCTCTGTCCCAGGCCAGACTTCTCCAAGGACAACAG
CAAGCCAGAAGTGCCAGTCAGAGGTACAGCAGCCTTTTACCATCATCTCCAGCTGCCAGTGGGTGCAAGCAGAC
CTCTACTAAACGCAAAGTAGAGGAAATGGAAGTGGATGACTTCTATGATGGAATCAAACGGCTCTATAATGAAGA
TAATGTCTCAGAAAATGTGGGTTCTGTGTGTGGCACTGATTTATCAAGACAAGAGGGACATGCTTCCCCTTGTCC
ACCTTTGCAGCCTGTTTCTGTCAITGATTTTCAACAAGTGCTACCTTTGAGTGTAATAAGGTAGACTACTTTG
GGAATGAGAACATGCAAAATCAGGAAAGGCTGTAGAAGGAAATATACCTTAACAGGCTGATTGGAGTGAGCCAG
AAAAAAAAAATAAACTCTCATTATTTGTGTGGCTAATTATAATTCAGCGTTATTTAAGCACATAAAGACCAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1450

MKFFPGPLENQRLSFLLEKAITREAQMWKVNVRKMPSNQNVSPSQRDEVIQWLAKLKYQFNLYPETFALASSLLDR
FLATVKAHPKYLSCIAISCFFLAAKTVEEDERIPVLKVLARDSFCGCSSEILRMERIILDKLNWDLHTATPLDF
LHIFHAIHAVSTRPQLLFSLPKLSPSQHLAVLTKQLLHCMACNQLLQFRGSMLALAMVSLEMEKLIPDWLSLTIEL
LQKAQMDSSQLIHCRELVAAHHLSTLQSSLPLNSVYVYRPLKHTLVTCDKGVFRLHPSSVPGPDFSKDNSKPEVPV
RGTAIFYHHLPAASGCKQTSTKRKVEEMEVDIFYDGIKRLYNEDNVSENVGSVCGTDLSRQEGHASPCPPLQPVS
VM

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FIGURE 1451

CCTGGACTCAGAGCTCAAGTCTGAACTCTACCTCCAGACAGAATGAAGTTCATCTCGACATCTCTGCTTCTCATG
CTGCTGGTCAGCAGCCTCTCTCCAGTCCAAGGTGTTCTGGAGGTCTATTACACAAGCTTGAGGTGTAGATGTGTC
CAAGAGAGCTCAGTCTTTATCCCTAGACGCTTCATTGATCGAATTCAAATCTTGCCCCGTGGGAATGGTTGTCCA
AGAAAAGAAATCATAGTCTGGAAGAAGAACAAGTCAATTGTGTGTGTGGACCTCAAGCTGAATGGATACAAAGA
ATGATGGAAGTATTGAGAAAAAGAAGTTCTTCAACTCTACCAGTTCAGTGTTAAGAGAAAGATTCCCTGATGC
TGATATTTCCACTAAGAACACCTGCATTCTTCCCTTATCCCTGCTCTGGATTTAGTTTTGTGCTTAGTTAAATC
TTTTCCAGGAAAAAGAACTTCCCCATACAAATAAGCATGAGACTATGTAAAAATAACCTTGCAGAAGCTGATGGG
GCAAACCTCAAGCTTCTTCACTCACAGCACCTATATACACTTGGAGTTTGCATTCTTATTCATCAGGGAGGAAAG
TTTCTTTGAAAATAGTTATTCAGTTATAAGTAATACAGGATTATTTTGATTATATACTTGTGTTTAATGTTTAA
AATTTCTTAGAAAACAATGGAATGAGAATTTAAGCCTCAAATTTGAACATGTGGCTTGAATTAAGAAGAAAATTA
TGGCATATATTAAAAGCAGGCTTCTATGAAAGACTCAAAAAGCTGCCTGGGAGGCAGATGGAACCTTGAGCCTGTC
AAGAGGCAAAGGAATCCATGTAGTAGATATCCTCTGCTTAAAAACTCACTACGGAGGAGAATTAAGTCCTACTTT
TAAAGAATTTCTTTATAAAATTTACTGTCTAAGATTAATAGCATTTCGAAGATCCCCAGACTTCATAGAATACTCA
GGGAAAGCATTATAAGGGTGATGTACACATGTATCCTTTCACACATTTGCCTTGACAACTTCTTTCACTCACAT
CTTTTTCACTGACTTTTTTTGTGGGGGGCGGGGCCGGGGGACTCTGGTATCTAATTCTTTAATGATTCCATATA
ATCTAATGACATTCAATAAAGTTGAGCAAACATTTTACTT

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FIGURE 1452

ATGGTTTATCAGACATCACTTTGTTCTTGTTCTGTAAACATCCGAGTGCCCAACAGACATTTTGCTGCTGCTACA
AAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAAACACCAGATGAGAAAAAGATGAAATAGAAAAAATA
AAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAAACGCTTATACCCGAGACAGATATAT
GAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCCTGACTTTACTAGTCCAAAGCAAAGTGTTTAT
CTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACCAGTGTTCTTAGTTTGCCA
TACCCATTTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAGGTCAAAATAGCGGAAGAA
AATGGAGCTGCATTTGCAGGAGGCACTAGTCTGATACAGAAGATTGGGATGATGAAATTGTTGCAGACTTTTAC
GTAGCTGTTCCAGAAATAATGCCTGAACTTAATCGATTAAAGGAAGAACTGAATAAAAAATATCCAAAGCTTTCT
CGAAATTCATTGGCCGTGACATCCCCAAAATGCTTGAATTATTTAAAAATGGACATGAAATTAAGGTAGATGAA
GAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTGGATATGTCAAGTGACCAGATAGCTGCCAATCTGCAA
GCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTACGTGCTTTCCTTCGTAGT
TCAACAAGTGAAGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAAAATGAAGAAAGTGAAAAA
GAAGATGCCTAA

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FIGURE 1453

GTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCGCTGCAATCCGTAGAGGAACCCGCCGCCGAGCC
ACCATCATGCCTGGGCACTTACAGGAAGGCTTCGGCTGTGTGGTCACCAACCGATTTCGACCAGTTATTTGACGAC
GAATCGGACCCCTTCGAGGTGCTGAAGGCAGCGGAGAACAAGAAAAAAGAAGCCGGCAGGGGTGGCGTTGGGGGC
CCTGGGGCCAAGAGCGCAGCTCAGGCGGCGGCCAGACCAACTCCAACGCGGCAGGCAAACAGCTGCGCAAGGAG
TCCCAGAAAGACCGCAAGAACCCGCTGCCCCGACGCTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCCGCC
GTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTTCAGGGTGAGGGGAAAATA
ATTGATAGAAGACCAGAAAGGCAACCACCTTGTGAACGAAGATTGAAAAAGCCACTTGAAGAAAAGGGTGAAGGA
GGCTAAATTTTCAGTTGATAGACCGATTATTGACCGACCTATTTCGAGGTCGTGGTGGTCTTGGAAGAGGTCGAGGG
GGCCGTGGACGTGGAATGGGCCGAGGAGATGGATTGTCTCGTGGCAAACGTGAATTTGATAGGCATAGTGGA
AGTGATAGATCTTCTTTTTCACATTACAGTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAAAC
TGGGGAAGTGTCAAAGACGAATTAAGTACTTGGATCAATCAAATGTGACTGACGAAACACCTGAAGGTGAAGAA
CATCATCCAGTGGCAGACACTGAAAAAAGGAGAATGATGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATG
ACTTTGGATGAGTGAAGGCTATTCAAAATAAGGACCGGGCAAAGTAGAATTTAATATCTGAAAAACCAATGAA
GGTGTCTGATGGGCAGTGAAGAAGGGATTTGTTTTCATAAATCAAAGAGTGAAGAGGCTTATGCTGAGGATTCAG
TTATGGACCATCATTTCCAGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCC
GCCCAGGACGTGGCGGCAGGGGAGGACAAGGTGGACATGGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCG
ACAAGTCAAGTACTTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCCAGTTCTGGCTTAAGTGGATGCCATAA
GACAACCTGGTTCCTTCGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAATGACAAATTAAA
AAAAAAAAAAGACTGTCATTATACCATTCACACCTAAAGACTGAATTTTATCTGTTTCAAAAATGAACTTATCT
CGCTACACAGAAGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTATATA
TTTTCAGAGATTATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAACTTGAAATA
TAGGTGTGAACAGTGTGTACCAGTTTAAAGCTTTCACTTCATTTGTGTTTTTAATTAAGGATTTAGAAGTCCC
CCAATTACAACTGGTTTTAAATATTGGACATACTGGCTTAAATACATGCTTTGCATATTCACACATGATCAACT
GGGACATGTTAACTTTGATTTGTCAAATTTTATTCTGTGTGGAATACTAATATATGTATTTAACTTAGTTTT
AATATTTTCATTTTTGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTAT
ATACAGAAATATCAGTACTTGAAGAAA

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FIGURE 1454

MPGHLQEGFGCVVTNRFDQLFDDSDPFEEVLKAAENKKKEAGRGGVGGPGAKSAAQAAAQTNNAAGKQLRKESQ
KDRKNPLPRSVGVVDKKEETQPPVALKKEGIRRVGRREDQQLQEGEKIIDRRPERQPPCERRFEKPLEEKGEKG

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FIGURE 1455

AGACGCAGTCTCCGTCGTTGACGTTAGTCGCAGTCTTCGCTGCTAACGTTTTGTTATGAGTTGCTAAAAATGGTGA
AATGCTGCTCCGCCATTGGATGTGCTTCTCGCTGCTTGCCAAATTCGAAGTTAAAAGGACTGACATTTACGTAT
TCCCCACAGATGAAAACATCAAAAGGAAATGGGTATTAGCAATGAAAAGACTTGATGTGAATGCAGCCGGCATT
GGGAGCCTAAAAAAGGAGATGTGTTGTGTTTCGAGGCACTTTAAGAAGACAGATTTTGACAGAAGTGCTCCAAATA
TTAAACTGAAACCTGGAGTCATACCTTCTATCTTTGATTCTCCATATCACCTACAGGGGAAAAGAGAAAACTTC
ATTGTAGAAAAAACTTCACCTCAAAACCGTTCCAGCCACTAACTACAATCACCATCTTGTGGTGCTTCCTCAT
GTATTGAAGAATTCCAATCCCAGTTCATTTTTGAACATAGCTACAGTGTAATGGACAGTCCAAAGAACTTAAGC
ATAAATTAGATCATGTGATCGGCGAGCTAGAGGATACAAAGGAAAGTCTACGGAATGTTTTAGACCGAGAAAAAC
GTTTTTCAGAAATCATTGAGGAAGACAATCAGGGAATTAAAGGATGAATGTCTGATCAGCCAAGAAACAGCAAATA
GACTGGACACTTTCTGTTGGGACTGTTGTCAGGAGAGCATAGAACAGGACTATATTTTCATGAAATAATTTTCATGT
TACGTTCCACCTAAAATTGTCATTGGTACAAATTTTTATAAAATCTCATTTACCATCACTAAATAATATCCATCA
TTTAAAGTGCTGCTTTGGATTCTCTGGAGCATTATGCATTATAGTTGTTATCCAAAGACTTTTTTGAAAAATATGC
AGAAATTTGTGGTAATTATGATTTGTGCTTGTGACAATTATGTTTTATAGACCTACACTAGTGCCAGGTCACCT
ATTGTAAGATGTTAAAATCTCAAGAAAATTTACAGAGCTAAAGAAATGATGTCAAATTAGTCACATTAAGCTAT
AGTAGAAGGAATTGGACACTTCTCCAGATATTTGGCTTCAAGGAGTACCTTTACTTACATGTGCTTTATGGTAA
GTACATTGAATTTTACTTTAAATGCATTTTACTACAAAGCACAAATTCATTTGTAATGCATATCCATCTTGGATT
AATCCAAGGTGCTTTAGCTATCAGTAGTACCAAAGGATCTTTTTACAAGGCTTCTGTGGTATTGACTCTGAGAA
TAACACATAGTGAAGATCTGTGGGCTTTTAAAATTGTTACAGCCAATTTAAGAAGACCCCTCATGAAGTCTCAG
TTTTTCAGTACAGTACATCATTCTCCTCACTAGGAGCACTTTGATGTAAACCAGAATAGCTTTAAAAAGACAAAA
AGGATCGTAGATCTGATTTTTTAAATGGTTGGTTGCTCTGACAGATCTGAACACTTTGCTTCATGACTATTTTCGTC
ATAAAGGTATATGTTTTAAATCTGAATGGCAGTACTAGCTCTATACTTTTAATACTGCTTTGTATTTTATATGTA
AAGTAGTATTGCTGACATTTTAAAAAATACAAAATACAAAAGAAACCATTAGAAATTAATAACTGTGGCTCTTC
CAGTTGAAATAGGAATTGGAGAGAAAGGATTAGAATATTTTAATTAGGGGAGTAGATTATTGTCCAAAGGCTTTT
ATTTAGAGAAACGGGTAATTAAAACAGCAGCTTTAGAATAGCTTCTTACTGAATATGCAAAGAATAATTCCTTG
TTATTTTCTAATTGATCCAAGTCTCATAAATTTAGCTTTTGTCTAATTCCTTACCGAAAACAACCTGAAATTGAG
AGTCATAAATACTGTGGGTAGAAATAAAAACCATTTGCCAAAGCAACACTCTACTTAGAAGCACATGTACATACA
TGGACCTCATTGAGAAGTCCATGTTGTAGCAGTTAGAATTTGAGTATCAGCCATTTTCATTGTAGTAACAAAAAT
GAATTGCATTTTGTGCTCAGTTGTTTATTGTAATTTTATTTTGTACATTAATATTAGTTAAGATATGGTCACT
TGAATTTTTTGTATTTAAGAATTTTCTGTTTTAATGCATGTTATACTTTTATGTAGGATTCCAAACCTTCCCTCT
AAATGGGATTTAACCCACATCTGCGAGATCAGCGTTATGCTAAGAGGAAATCACTGAGGCCATATCTTTTTACAA
TCTGAAAAAAAAGTAGTAAAAAGGTAGTTAAAAA

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FIGURE 1456

CGGCGCCATTAAAGCGAGGAGGAGGCGAGAGCGGCCGCCGCTGGTGCTTATTCTTTTTTAGTGACGCGGGAGAGA
GCGGGAGTGTGCGCCGCGCGAGAGTGGGAGGCGAAGGGGGCAGGCCAGGGAGAGGCGCAGGAGCCTTTGCAGCCA
CGCGCGCGCCTTCCCTGTCTTGTGTGCTTCGCGAGGTAGAGCGGGCGCGCGGCAGCGGCGGGGATTACTTTGCTG
CTAGTTTCGGTTCGCGGCAGCGGCGGGTGTAGTCTCGGCGGCAGCGGCGGAGACACTAGCACTATGTCTGGAGGAG
CAGTTTCGGCGGGGACGGGGCGGCGGCAGCGGCAACGGCGGCGGTAGGCGGCTCGGCGGGCGAGCAGGAGGGAGCC
ATGGTGGCGGCGACACAGGGGGCAGCGGCGGCGGCGGGAAGCGGAGCCGGGACCGGGGGCGGAACCGCGTCTGGA
GGCACCGAAGGGGGCAGCGCCGAGTCGGAGGGGGCGAAGATTGACGCCAGTAAGAACGAGGAGGATGAAGGCCAT
TCAAACTCCTCCCCACGACACTCTGAAGCAGCGACGGCACAGCGGGAAGAATGGAAAATGTTTATAGGAGGCCTT
AGCTGGGACACTACAAAGAAAGATCTGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAG
TTAGATCCTATCACAGGGCGATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTC
ATGGATCAAAAAGAACATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAG
CCGGTTAAAAAATTTTTGTTGGTGGCCTTTCTCCAGATACACCTGAAGAGAAAATAAGGGAGTACTTTGGTGGT
TTTGGTGAGGTGGAATCCATAGAGCTCCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACC
TTTAAGGAAGAAGAACCAGTGAAGAAGATAATGGAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATA
AAAGTAGCCATGTCGAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGCAGGAAGAGCT
CGTGGAAGAGGTGGTGACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCATCAAATAGCTACAAA
CCATACTAAATTATTCCATTTGCAACTTATCCCCAACAGGTGGTGAAGCAGTATTTTCCAATTTGAAGATTCATT
TGAAGGTGGCTCCTGCCACCTGCTAATAGCAGTTCAAATAAATTTTTTGTATCAAGTCCCTGAATGGAAGTATG
ACGTTGGGTCCCTCTGAAGTTTAATTCTGAGTTCTCATTAAAAGAAATTTGCTTTCATTGTTTTATTTCTTAATT
GCTATGCTTCAGAATCAATTTGTGTTTTATGCCCTTTCCCCCAGTATTGTAGAGCAAGTCTTGTGTTAAAAGCCC
AGTGIGACAGTGTGATGTAGTAGTGTCTTACTGGTTTTTTAATAAATCCTTTTGTATAAAAATGTATTGGCT
CTTTTATCATCAGAATAGGAAAAATTGTCATGGATTCAAGTTATTAAAAGCATAAGTTTGGAAGACAGGCTTGCC
GAAATTGAGGACATGATTAAAATTGCAGTGAAGTTTGAAATGTTTTTAGCAAAATCTAATTTTTGCCATAATGTG
TCCTCCCTGTCCAAATTGGGAATGACTTAATGTCAATTTGTTTGTGGTTGTTTTAATAATACTTCCTTATGTAG
CCATTAAGATTTATATGAATATTTTCCCAAATGCCAGTTTTTGCTTAATATGTATTGTGCTTTTTAGAACAAAT
CTGGATAAATGTGCAAAAGTACCCCTTTGCACAGATAGTTAATGTTTTATGCTTCCATTAAATAAAAAGGACTTA
AAATCTGTTAATTATAATAGAAATGCGGCTAGTTCAGAGAGATTTTTAGAGCTGTGGTGGACTTCATAGATGAAT
TCAAGTGTTGAGGGAGGATTAAAGAAAT

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FIGURE 1457A

GACGAGCGCTGCTACTAACGCAGGATCCGGCTGCCGAAGGTCCTCGCCAGCAGGATGAAGTTAAAGGAAGTAGATC
GTACAGCCATGCAGGCATGGAGCCCTGCCCAGAATCACCCCATTACCTAGCAACAGGAACATCTGCTCAGCAAT
TGGATGCAACATTTAGTACGAATGCTTCCCTTGAGATATTTGAATTAGACCTCTCTGATCCATCCTTGATATGA
AATCTTGTGCCACATTCTCTCTTCTCACAGGTACCACAAGTTGATTTGGGGGCCTTATAAAATGGATTCCAAAG
GAGATGTCTCTGGAGTTCTGATTGCAGGTGGTGAAAATGGAAATATTATTCTCTATGATCCTTCTAAAATTATAG
CTGGAGACAAGGAAGTTGTGATTGCCCAGAATGACAAGCATACTGGCCAGTGAGAGCCTTGATGTGAACATTT
TCCAGACTAATCTGGTAGCTTCTGGTGCTAATGAATCTGAAATCTACATATGGGATCTAAATAATTTTGCAACCC
CAATGACACCAGGAGCCAAAACACAGCCGCCAGAAGATATCAGCTGCATTGCATGGAACAGACAAGTTCAGCATA
TTTTAGCATCAGCCAGTCCCAGTGGCCGGGCCACTGTATGGGATCTTAGAAAAATGAGCCAATCATCAAAGTCA
GTGACCATAGTAACAGAATGCATTGTTCTGGGTTGGCATGGCATCCTGATGTTGCTACTCAGATGGTCCTTGCCCT
CCGAGGATGACCGGTTACCAGTGATCCAGATGTGGGATCTTCGATTTGCTTCCCTCTCCACTTCGTGTCCTGGAAA
ACCATGCCAGGGGATTTTGCAATTGCTTGGAGCATGGCAGATCCTGAATTGTTACTGAGCTGTGGAAAAGATG
CTAAGATTCTCTGCTCCAATCCAAACACAGGAGAGGTGTTATATGAACTTCCACCAACACACAGTGGTGCTTCG
ATATTCAGTGGTGTCCCCGAAATCCTGCTGTCTTATCAGCTGCTTCGTTTGATGGGCGTATCAGTGTATTCTTA
TCATGGGAGGAAGCACAGATGGTTTAAGACAGAAACAAGTTGACAAGCTTTCATCATCTTTTGGGAATCTTGATC
CCTTTGGCACAGGACAGCCCCTTCCCTCCGTTACAAATTCCACAGCAGACTGCTCAGCATAGTATAGTGCTGCCTC
TGAAGAAGCCGCCCAAGTGGATTGCAAGGCCTGTTGGTGCTTCTTTTTTCAATTTGGAGGCAAACTGGTTACGTTG
AGAATGTCAGAATGCCTTCTCATCAGGGAGCTGAGCAGCAGCAGCAGCAGCAGCAGCAGCATGTGTTCAATAGTCAGGTTG
TAACAGAAAAGGAGTTCCTCAGCCGATCAGACCAACTTCAGCAGGCTGTGCAGTCACAAGGATTTATCAATTATT
GCCAAAAAAAATTTGATGCTTCTCAGACTGAATTTGAGAAAAATGTGTGGTCCTTTTTGAAGGTAAACTTTGAGG
ATGATTCTCGTGGAATAACCTTGAACCTTCTAGGATACAGAAAAGAAGATCTAGGAAAGAAGATTGCTTTGGCCT
TGAACAAAGTGGATGGAGCCAATGTGGCTCTTAAAGACTCTGACCAAGTAGCACAGAGTGATGGGGAGGAGAGCC
CTGCTGCTGAAGAGCAGCTCTTGGGAGAGCAGATTAAAGAGGAAAAAGAAGAATCTGAATTTCTACCTCATCTG
GAGGAACATTTAATATCTCTGTGCTAGTGGGACATTGATGGTTTAAATTACTCAGGCTTTGCTGACGGGCAATTTTG
AGAGTGCTGTTGACCTTTGTTTACATGATAACCGCATGGCCGATGCCATTATATTGGCCATAGCAGGTGGACAAG
AACTCTTGGCTCGAAGCCAGAAAAATACTTCGCAAAATCCCAAAGCAAAATTACCAGGCTCATCACTGCAGTGG
TGATGAAGAACTGGAAGAGATTGTTGAGTCTTGTGATCTTAAAAATTGGAGAGAGGCTTTAGCTGCAGTATTGA
CTTATGCAAGCCGGATGAATTTTTCAGCCCTTTGTGATCTTTTGGGAACAGGCTTGAAAAAGAGGATAGCC
TCCTGCAGACTCAAGCATGTCTCTGCTATATTTGTGTCAGGGAATGTAGAGAAATTAGTTGCATGTTGGACTAAAG
CTCAAGATGGAAGCCACCCTTTGTCACTTCAGGATCTGATTGAGAAAGTTGTATCCTGCGAAAAGCTGTGCAAC
TCACTCAAGCCATGGACACTAGTACTGTAGGAGTTCTCTTGGCTGCGAAGATGAGTCAGTATGCCAATTTGTTGG
CAGCTCAGGGCAGTATTGCTGCAGCCTTGGCTTTTCTTCTGACAACACCAACCAGCCAAATATCATGCAGCTTC
GTGACAGACTTTGTAGAGCACAAGGAGAGCCTGTAGCAGGACATGAATCACCTAAAAATCCGTACGAGAAACAGC
AGCTCCCCAAGGGCAGGCCTGGACCAGTTGCTGGCCACCACCAGATGCCAAGAGTTCAAACCTCAACAATATTATC
CCCATGGAGAAAAATCCTCCACCTCCGGGTTTCATAATGCATGGAAATGTTAATCCAAATGCTTCTGGTCAGCTTC
CCACATCTCCAGGTCATATGCACACCAGGTACCACCTTATCCACAGCCACAGCCTTATCAACCAGCCCAGCCGT
ATCCCTTCGGAACAGGGGGGTCAGCAATGTATCGACCTCAGCAGCCTGTTGCTCCTCCTACTTCAAACGCTTACC
CTAACACCCCTTACATATCTTCTGCTTCTTCTTATACTGGGCAGTCTCAGCTGTACGCAGCAGCAGCAGGCTT
CTTACCTACCTCCAGCCCTGCTACTTCTTTCCCTCCTCCCCCTTCTCTGGAGCATCCTTCCAGCATGGCGGAC
CAGGAGCTCCACCATCATCTTCAGCTTATGCACTGCCTCCTGGAACAACAGGTACACTGCCTGCTGCCAGTGAGC
TGCCTGCGTCCCAAAGAACAGGTCTCAGAATGGTTGGAATGACCCTCCAGCTTTGAACAGAGTACCCAAAAAGA
AGAAGATGCCTGAAAACCTTCATGCCTCCTGTTCCCATCACATACCAATCATGAACCCGTTGGGTGACCCCCAGT
CACAAATGCTGCAGCAACAGCCTTCAGCTCCAGTACCAGTGTCAAGCCAGTCTTCATTTCCACAGCCACATCTTC
CAGGTGGCCAGCCCTTCCATGGCGTACAGCAACCTCTTGGTCAAACAGGCATGCCACCATCTTTTTTCAAAGCCCA
ATATTGAAGGTGCCCCAGGGGCTCCTATTGGAAATACCTTCCAGCATGTGCAGTCTTTGCCAACAAAAAATTA
CCAAGAAACCTATTCCAGATGAGCACCTCATTCTAAAGACCACATTTGAGGATCTTATTCAGCGCTGCCTTTCTT
CAGCAACAGACCCTCAAACCAAGAGGAAGCTAGATGATGCCAGCAAACGTTTGGAGTTTCTGTATGATAAACTTA
GGGAACAGACACTTTCACCAACAATCACCAGTGGTTTACACAACATTGCAAGGAGCATTGAACTCGAACTACT

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FIGURE 1457B

CAGAAGGATTGACCATGCATACCCACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCTTTCATGCCAGTTC
TCAAAGTTGTTCTCAGGCAATAAGCTGGGTGTCTAAAGGACAGCTTCTCTTCCACTCAATATTGCCATT
TTTCCAAAGAAACATGTTAAAAAATAAAGACATGGACTAGTCCTCATTAGCATGTTTGCATAGCAACC
AGTCAAGAGCATTACACTATTTCTGCTGATATACTCACCTTAGAACTGCTCAGAACCCTGGTGCTTTATTTTG
TTTTAATCTTTGTTGCCAGTGATGATTTTCTATTCTGCAAATAGTGATTTCTGGATTACACATAGTATGGT
TTCTGAAGTATTCTGATAAATGTGTTTTTTTAAACCTCAATATACTTTTAGAAAAGGAGCATCTGGTTATGC
ATAAAGCAGAGCTAAACTAAATTTCTTTCATGTCCTCCCTACTTCTCAGTGTCAATCAGATTAAAGTGTGTAA
TCCT

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FIGURE 1458

MKLKEVDRTAMQAWSPAQNHP IYLATGTS AQQLDATFSTNASLEIFELDLSDPSLDMKSCATFSSSHRYHKLIWG
PYKMDSKGDVSGVLIAGGENGNII LYDPSKIIAGDKEVVIAQNDKHTGPVRALDVNIFQTNLVASGANESIYIW
DLNNFATPMTPGAQTQPPEDISCIAWN RQVQHILASASPSGRATVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDV
ATQMVLA SEDDRLPVIQMWDLR FASSPLRVLENHARGILAIAWSMADPELLLS CGKDAKILCSNPNTGEVLYELP
TNTQWCFDIQWCPRNPAVL SAASFDGRISVYSIMGGSTDGLRQKQVDKLSSSFGNLDPFGTGQPLPPLQIPQQT
QHSIVLPLKKPPKWIRRPVGASF SFGGKLVT FENVRMPSHQGAEQQQQHHVFISQVVTEKEFLSRSDQLQQAVQ
SQGFINYCQKKIDASQTEFEKNVWSFLKVN FEDDSRGKYLELLGYRKEDLGKKIALALNKVDGANVALKDSQVA
QSDGEESPAEEQLLGEHIKEEKEESEFLPSSGGTFNISVSGDIDGLITQALLTGNFESAVDLCLHDNRMADAI
LAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALAAVLTyakPDEFSALCDLLGTR
LENEGDSL LQTQACLCYICAGNVEKLVACWTKAQDGSHP LSLQDLIEKVVILRKAVQLTQAMDTSTVGVLLAAKM
SQYANLLAAQGSIAAALAF LPDNTNQPNIMQLRDRLCRAQGE PVAGHESPKIPYEKQQLPKGRPGPVAGHHQMPR
VQTQQYYPHGENPPPPGFIMHGNVNPNASGQLPTSPGHMHTQVPPYPQPYQPAQPYPF GTGGSAMYRPQQPVA
PPTSNAYPNTPYISSASSYTGQS QLYAAQHQASSPTSSPATSFPPPPSSGASFQHGPGAPPSSSAYALPPGTTG
TLPAASELPASQRTGPGQNGWNDPPALNRVPKKKKMPENFMPPVPI TSPIMNPLGDPQSQMLQQQP SAPVPLSSQS
SFPQPHLPGGQPFHGVQQPLGQTGMPPSFSKPNIEGAPGAPIGNTFQHVQSLPTKKITKKPIPDEHLILKTTFED
LIQRCLSSATDPQTKRKLDDASKRLEFLYDKLREQTLSP TITSGLHNIARSIETRNYSEGLTMHTHIVSTSNFSE
TSAFMPVLKVVL TQANKLGV

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FIGURE 1459

GCAGAGCACAGCATCGTCGGGACCAGACTCGTCTCAGGCCAGTTGCAGCCTTCTCAGCCAAACGCCGACCAAGGA
AAACTCACTACCATGAGAATTGCAGTGATTTGCTTTTGCCTCCTAGGCATCACCTGTGCCATACCAGTTAAACAG
GCTGATTCTGGAAGTTCTGAGGAAAAGCAGCTTTACAACAAATACCCAGATGCTGTGGCCACATGGCTAAACCCT
GACCCATCTCAGAAGCAGAATCTCCTAGCCCCACAGACCCTTCCAAGTAAGTCCAACGAAAGCCATGACCACATG
GATGATATGGATGATGAAGATGATGATGACCATGTGGACAGCCAGGACTCCATTGACTCGAACGACTCTGATGAT
GTAGATGACACTGATGATTCTCACCAGTCTGATGAGTCTCACCATTCTGATGAATCTGATGAACTGGTCACTGAT
TTTCCACGGACCTGCCAGCAACCGAAGTTTTCACTCCAGTTGTCCCCACAGTAGACACATATGATGGCCGAGGT
GATAGTGTGGTTTATGGACTGAGGTCAAAATCTAAGAAGTTTCGCAGACCTGACATCCAGTACCCTGATGCTACA
GACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCCAGGAC
CTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCT
GAAACCCACAGCCACAAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTG
ATTGATAGTCAGGAACCTTTCCAAAGTCAGCCGTGAATTCACAGCCATGAATTTACAGCCATGAAGATATGCTG
GTTGTAGACCCCAAAGTAAGGAAGAAGATAAACACCTGAAATTTTCGTATTTCTCATGAATTAGATAGTGCATCT
TCTGAGGTCAATTTAAAAGGAGAAAAAATAAATTTCTCACTTTGCATTTAGTCAAAAGAAAAAATGCTTTATAGC
AAAATGAAAGAGAACATGAAATGCTTCTTTCTCAGTTTATTGGTTGAATGTGTATCTATTTGAGTCTGGAAATAA
CTAATGTGTTTGATAATTAGTTTAGTTTGTGGCTTCATGGAACTCCCTGTAAACTAAAAGCTTCAGGGTTATGT
CTATGTTTATTCTATAGAAGAAATGCAAACTATCACTGTATTTTAATATTTGTTATTCTCTCATGAATAGAAATT
TATGTAGAAGCAAACAAAATACTTTTACCCACTTAAAAAGAGAATATAACATTTTATGTCATAATCTTTTGT
TTTTTAAGTTAGTGTATATTTTGTGTGATTATCTTTTGTGGTGTGAATAAATCTTTTATCTTGAATGTAATAA
GAATTTGGTGGTGTCAATTGCTTATTTGTTTTCCACGGTTGTCCAGCAATTAATAAAACATAACCTTTTTTACT
GCCTAAAAA~~AAAAAAAAAAAAAAAA~~

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FIGURE 1460

MRIAVICFCLLGITCAIPVKQADSGSSEKQLYNKYPDAVATWLNPDPSQKQNLLAPQTLPSKSNESHDMDDMD
DEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDSHHSDSEDELVTDFPTDLPATEVFTPVVPTVDITYDGRGDSVV
YGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLEDDQSAETHS
HKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELDSASSEVN

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FIGURE 1461

CTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGTGTAAGCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTTCGTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCTCAGGAACGTACCCTGGCTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAAATAATTTGAGAACCATTGCCAAGTCTGGTACTAAAGCATGCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTTCTGCCTACCTGGTGGCAGAGAACTGGTTGTGATCACAA
AGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTTCACTGTGCATGCTGATCATGGTG
AGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACTTAGAAGAGAGGCGGG
TCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCCTTTATTTGGAGAAGGAACAAGACA
AGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGACGAAGAAAAGC
CCAAGATCAAAGATGTGGGTTTCAGATGAGGAGGATGACAGCAGTAAGGATAAGAAGAAGAAAACCTAAGAAGATCA
AAGAGAAATACATTGACTAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCATGATGACATCACCC
AAGAGGAGTATGGAGAATTCTATAAGAGCCTCACCAGTGACTGGGAAGACCCTTGGCAGTCAAGCACTTTTCTG
TAGAAGGTCAGTTGGAATTCAGGGCATTGCTATTTCAGTCTCGTGGGCTCCCTTTGACCTTTTGTAGAACAAGA
AGAAAAAGAAACAACATCAAACGTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACAGAGT
ATCTCAATTTTATCCATGGTGTGGTTGACTCTGAGGATCTGCCCCCTGAACATCTCCCGAGAAATGCTCCAGCAGA
GCAAAATCTTGAAAGTCATTGCGAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGACA
AGGAGATTATAAGAAATTCATGAGGCATTTTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAACCG
CCACCGCCTGTCTGAGCTGCTGCGCTGTACACCTCCCAGTCTGGAGATGAGATGACATCTCTGTCTAGTATGT
TTCTCACATGAAGGAGACACAGAAGTCCACCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCTGC
TTTTGTGGAGCGAGTGCGGAAACAGGGCTTCGAGGTGGTATATATGACTGAGCCCATGACGAGTACTGTGTGCA
GCAGCTCAAGGAGTTTGATGGGAAAAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTACCTGAGGATGAGGA
GGAGAAGAAGAAGATGGAAGAAAGCAAGGAAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGATAA
GAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTCACCCTGCTGCATTGTGACCAGCACCTACGGCTG
GACAGCCAATATGGAGCAGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCCAA
AAAGCACCTGGAGATCAACCCCGACCACCCCATCATGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGA
TAAGGCAGTTAAGGACCTGGTGGTGTCTGCTGTTTGAACCGCCCTGCTATCTTCGGGCTTTTCCCTTGAGGATCC
CCAGACCCACTCCAACCACATCTACCACATGATCAAGCTAGGTCTAGGTACTGATGAAGATGAAGTGGCAGCAGA
GGAACCCAGTGATGCAGTTCTGATGAGATCCCCCTCTTGAGGGTGTGAGGATGCGTCTCGCATGGAAGAAGT
CGATTAGGAGTTCATAGTTGGAAAACCTTGTCCTTGTATAGTGTCCCCATGGCTCCCACTGCAGCCTCGAGTGC
CCCTGTCCCACCTGGCTGCTGGTGTCTAGTGTTTTTTCCCTCTCCTGTCTTGTGTTGAAGGCAGGAAACCAAG
GGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGTATTGTGGTTTATTTTATTTTCT
TCATTTTGTCTGAAATTAAGAATGTAAAATAAAGAATATGCCGTTTTTATAC

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FIGURE 1462

MKETQKSTYYITGESKEQVANS AFVERVRKQGFEVVYMT EPIDEYCVQQLKEFDGKSLVSVTK EGLELPEDEEEK
KKMEESKEKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMEQIMKAQALRDNSTMGYMMAKKH
LEINPDHPIMETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLEDPQTHSNHIYHMIKLGLGTDEDEVA AEPP
SDAVPDEIPPLEGDEDASRMEEVD

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FIGURE 1463

CTCTCAAGTCACTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGT
GTAAGCCTTTTCTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGG
CAGAAATTGCCCAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGA
TCTCTAATGCTTCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTA
AAGAGCTGAAAATTGACATCTCCATGATTGGGCAGTTTGGTGTTGGCTTTTTTCTGCCTACCTGGTGGCAGAGAA
ACTGGTTGTGATCACAAAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCTTCACTGT
GCATGCTGATCATGGTGAGCCCATTTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTA
CTTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCTTTATTT
GGAGAAGGAACAAGACAAGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAA
AGATGACGAAGAAAAGCCCAAGATC

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FIGURE 1464

GAGCAGCAGAATTTCAACTCCAGTAGACTTGAATATGCCTCTGGGCAAAGAAGCAGAGCTAACGAGGAAAGGGAT
TTAAAGAGTTTTTCTTGGGTGTTTGTCAAACTTTTATTCCCTGTCTGTGTGCAGAGGGGATTCAACTTCAATTTT
TCTGCAGTGGCTCTGGGTCCAGCCCCTTACTTAAAGATCTGGAAAGCATGAAGACTGGGCTTTTTTTCCTATGTC
TCTTGGGAACTGCAGCTGCAATCCCGACAAATGCAAGATTATTATCTGATCATTCCAAACCAACTGCTGAAACGG
TAGCACCTGACAACACTGCAATCCCGAGTTTAAAGGGCTGAAGCTGAAGAAAATGAAAAAGAAACAGCAGTATCCA
CAGAAGACGATTCCCACCATAAGGCTGAAAAATCATCAGTACTAAAGTCAAAAGAGGAAAGCCATGAACAGTCAG
CAGAACAGGGCAAGAGTTCTAGCCAAGAGCTGGGATTGAAGGATCAAGAGGACAGTATGGTCACTTAAGTGTGA
ATTTGGAGTATGCACCAACTGAAGGTACATTGGACATAAAAGAAGATATGAGTGAGCCTCAGGAGAAAAAATCT
CAGAGAACACTGATTTTTTGGCTCCTGGTGTTAGTTCCTTACAGATTCTAACCAACAAGAAAGTATCACAAAGA
GAGAGGAAAACCAAGAACAACCTAGAAATTATTCACATCATCAGTTGAACAGGAGCAGTAAACATAGCCAAGGCC
TAAGGGATCAAGGAAACCAAGAGCAGGATCCAAATATTTCCAATGGAGAAGAGGAAGAAGAAAAAGAGCCAGGTG
AAGTTGGTACCCACAATGATAACCAAGAAAGAAAGACAGAATTGCCCAGGGAGCATGCTAACAGCAAGCAGGAGG
AAGACAATACCCAATCTGATGATATTTTGGAAAGAGTCTGATCAACCAACTCAAGTAAGCAAGATGCAGGAGGATG
AATTTGATCAGGGTAACCAAGAACAAGATAACTCCAATGCAGAAATGGAAGAGGAAAATGCATCGAACGTCA
ATAAGCACATTCAAGAACTGAATGGCAGAGTCAAGAGGGTAAACTGGCCTAGAAGCTATCAGCAACCACAAAG
AGACAGAAGAAAAGACTGTTTCTGAGGCTCTGCTCATGGAACCTACTGATGATGGTAATACCACGCCCAGAAATC
ATGGAGTTGATGATGATGGCGATGATGATGGCGGACTGATGGCCCCAGGCACAGTGCAAGTGATG
ACTACTTCATCCCAAGCCAGGCCCTTTCTGGAGGCCGAGAGAGCTCAATCCATTGCCTATCACCTCAAAATTGAGG
AGCAAAGAGAAAAAGTACATGAAAATGAAAATATAGGTACCACTGAGCCTGGAGAGCACCAAGAGGCCAAGAAAG
CAGAGAACTCATCAATGAGGAGGAAACGTCAGTGAAGGCAACATGAGGGTGCATGCTGTGGATTCTTGTCATGA
GCTTCCAGTGTAAAAGAGGCCACATCTGTAAGGCAGACCAACAGGGAAAACCTCACTGTGTCTGCCAGGATCCAG
TGACTTGTCTCTCAACAAAACCCCTTGATCAAGTTTGTGGCACTGACAATCAGACCTATGCTAGTTTCTGTCTC
TATTCGCTACTAAATGCAGACTGGAGGGGACCAAAAAGGGGCATCAACTCCAGCTGGATTATTTTGGAGCCTGCA
AATCTATTCTACTTGTACGGACTTTGAAGTGATTAGTTTCTCTACGGATGAGAGACTGGCTCAAGAATATCC
TCATGCAGCTTTATGAAGCCAACCTCTGAACACGCTGGTTATCTAAATGAGAAGCAGAGAAATAAAGTCAAGAAAA
TTTACCTGGATGAAAAGAGGCTTTTGGCTGGGGACCATCCCATTGATCTTCTCTTAAGGGACTTTAAGAAAACT
ACCACATGTATGTGTATCCTGTGCACTGGCAGTTTAGTGAACTTGACCAACACCCTATGGATAGAGTCTTGACAC
ATTCTGAACTTGCTCCTCTGCGAGCATCTCTGGTGCCCATGGAACACTGCATAACCCGTTTCTTTGAGGAGTGTG
ACCCCAACAAGGATAAGCACATCACCTGAAGGAGTGGGGCCACTGCTTTGGAATTAAAGAAGAGGACATAGATG
AAAATCTCTTGTTTTGAACGAAGATTTTAAAGAACTCAACTTTCCAGCATCCTCCTCTGTTCTAACCACTTCAGA
AATATATGCAGCTGTGATACTTGTAGATTTATATTTAGCAAAATGTTAGCATGTATGACAAGACAATGAGAGTAA
TTGCTTGACAACAACCTATGCACCAGGTATTTAACATTAACCTTTGGAAACAAAAATGTACAATTAAGTAAAGTCA
ACATATGCAAAATACTGTACATTGTGAACAGAAGTTAATTCATAGTAATTTCACTCTCTGCATTGACTTATGAG
ATAATTAATGATTAACTATTAATGATAAAAAATAATGCATTTGTATTGTTTATAATATCATGTGCACTTCAAGAA
AATGGAATGCTACTCTTTTGTGGTTTACGTGTATTATTTTCAATACTTAATACCCTAATAAAGAGTCCATAAAA
ATCC

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FIGURE 1465

CTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAA
ACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCC
CGCTGGGTCCAAGACGCGGAAGATCCCATACCCCACCAAGAACCCTTCACGTGGCTCTTCCTGCTGGTGTCTG
CCCCAACTACACCTACGAGGTGGGGTCCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCAGTGGCCCTGTT
CTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGA
CTACCCGCCCCCTGCGCATGCCCATCATCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGCTCAGCCCCTCAA
CCCGGTGGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGCCCCAGTCG
GGA

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FIGURE 1466

GAGGGCGGGCCTGTTTTCCGGGAGGCGCGTGGGGCTTGAGGCCGAGAACGGCCCTTGCTGCCACCAACATGGAGAC
TTTGTACCGTGTCCCGTTCTTAGTGCTCGAATGTCCCAACCTGAAGCTGAAGAAGCCGCCCTGGTTGCACATGCC
GTCGGCCATGACTGTGTATGCTCTGGTGGTGGTGTCTTACTTCCTCATCACCGGAGGAATAATTTATGATGTTAT
TGTTGAACCTCCAAGTGTGCGTTCTATGACTGATGAACATGGGCATCAGAGGCCAGTAGCTTTCTTGGCCTACAG
AGTAAATGGACAATATATTATGGAAGGACTTGCATCCAGCTTCCTATTTACAATGGGAGGTTTAGGTTTCATAAT
CCTGGACCGATCGAATGCACCAAATATCCCAAACTCAATAGATTCCTTCTTCTGTTTCATTGGATTTCGTCTGTGT
CCTATTGAGTTTTTTTCATGGCTAGAGTATTCATGAGAATGAACTGCCGGGCTATCTGATGGGTTAGAGTGCCTT
TGAGAAGAAATCAGTGGATACTGGATTTGCTCCTGTCAATGAAGTTTTAAAGGCTGTACCAATCCTCTAATATGA
AATGTGGAAGAATGAAGAGCAGCAGTAAAAGAAATATCTAGTGAAAAACAGGAAGCGTATTGAAGCTTGGAC
TAGAATTTCTTCTTGGTATTAAAGAGACAAGTTTATCACAGAATTTTTTTTCTGCTGGCCTATTGCTATACCAA
TGATGTTGAGTGGCATTTCCTTTTAGTTTTTCATTAAAAATATATCCATATCTACAACTATAATATCAAATAAA
GTGATTATTTTTTACAACCCTCTTAACATTTTTTGGAGATGACATTTCTGATTTTCAGAAATTAACATAAAATCC
AGAAGCAAGATTCCGTAAGCTGAGAACTCTGGACAGTTGATCAGCTTTACCTATGGTGCTTTGCCTTTAACTAGA
GTGTGTGATGGTAGATTATTTTCAATATGTATGTAAAACTGTTTCCTGAACAATAAGATGTATGAACGGAGCAGA
AATAAATACTTTTTCTAATTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1467

METLYRVPFLVLECPNLKLLKKPPWLHMP SAMTVYALVVVSYFLITGGIIYDVIVEPPSVGSMTDEHGHQRPVAF L
AYRVNGQYIMEGLASSFLFTMGGLGFIILDRSNAPNIPKLNRFLLLF IG FVCVLLSFFMARVFMRMKLPGYLMG

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FIGURE 1468

ATGCCCCAACTCTCCGGAGGAGGTGGCGGCGGCGGGGGGACCCGGAACCTCTGCGCCACGGACGAGATGATCCCC
TTCAAGGACGAGGGCGATCCTCAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAAGGCGATTTA
GCTGACATCAAGTCTTCCCTTGGTGAACGAGTCTGAAATCATCCCGGCCAGCAACGGACACGAGGTGGCCAGACAA
GCACAAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCGATGACGGAAAGCATCCAGATGGAGGC
CTCTACAACAAGGGACCCCTCCTACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATAC
ATGTCAAATGGATCTCTTTCTCCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCG
GTCCATCCTCTCACCCCCCTCATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCA
TCAGATGTCAACTCCAAACAAGGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCT
CCGGGTGGTGTGGACAGATCACCCACCTCTTGGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATTC
AGGCAACCCTACCCATCCTCACTGTCAGTCGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCCCGGTCCT
CCTGGTCCCCACAACTGGCATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACT
GACAGTGACCTAATGCACGTGAAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCACATTAAG
AAGCCTCTGAATGCTTTTATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTCTAAAAGAA
AGTGCAGCTATCAACCAGATTCTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAA
TTAGCACGGAAGAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAA
AAGAAGAGGAAGAGAGAGAAACTACAGGAACTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGA

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FIGURE 1469

TGGCCACAACACCGACACAGTAGCATTGTGTGCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGC
TAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCACGCTGCTTGAGGC
TCTTGACTGCATCCTACCACCAACTCGTCCAACGACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAAT
TGGTGGTATTGGTACTGTTCCGTGGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGC
TCCAGTCAACGTTGCAACAGAAGTAAAATCTGTTGAAATGCACCATGAAGCAGAAGGCTAAATAAATATTATCCC
TACTACCTGCCACCCCACTGTTAATCAGTGGTGGAGAATGGTCTCAGAACTGTTTGTTTCAATTGGCCATTGAA
GTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATCATAAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGG
ACCACTTGGTTTTCTTTCTTTGCATGTGGCAGTTTTAAGTTATTAGTTTTTAAAATCAGTACTTTTTACTGGAA
ACAACTTGACCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAAGTTAATGAAAAA

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FIGURE 1470

AAGCCAGAACGAGAAAGGAAAAGACTCATATCAACACTGTGATCATCGGACACGTAGATTCGGGCAAGTCCACCA
CTACTGGCCATCTGATCTACAAATGCGGTGGCGTCGACAAAAGAACCATCGAAAAATTTGAGAAGGAGGCTGCTG
AGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACATGGTATCACCA
TTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGGGACAATGTGGGCTTCAATGTCAAGAATGTGTC
TGTC AAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCAC
TGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCCGTATTGGATTGCCACACGGC
TCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCC
TAAATTCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCGTGATGTTGAGAGCTTCTC
AGACTATCCACCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGT
GGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATAAATATTATC
CCTA

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FIGURE 1471

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGCCAGTTT
CTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACTCGTCCAAGTACA
AGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCTGAGTGGAGA
CTGGTGTTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTAAAATCTGTTGAAA
TGCACCATGAAGCTTTGAGTGAAGTTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCT
TCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGG

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FIGURE 1472

GTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATG
CCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTG
CTGCTGGTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTGGCTTACA
CACTGGGTGTGAAACAACATAATTGTTGGTGTAAACAAATGGATTCCACTGAGCCACCCTACAGCCATAAGAGAT
ATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGC
CAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCA
CCCGTAAGGATGGCAATGCCAGTGGAACACGCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTG
TTCCTGTTGGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAA
CAGAAGTAAATCTGTTGAAATGCACCATGAAGCTTTGAGTGAAGTTCTTCCTGGGGACAATGTGGGCTTCAATG
TCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAG
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

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FIGURE 1473

GAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAA
GCTGAGCGTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATC
ATTGATGCCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTG
ATTGTTGCTGCTGGTTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTG
GCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAT
AAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCA
TTTGTGCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGG
AAAGTCACCCGTAAGGATGGCAATGCCAGTGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACT
CGTCCAAGTACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTT
GGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTA
AAATCTGTGTCAAGGATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTG
GCTTCACTGCTCAGGTGATTATCCTG

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FIGURE 1474A

GGTGGTTCGCAGAAGCAGCAGTGAAGAGAAGCTACTGTGTTTGGTGCGGGAGCGAGCTGGCCACACCTGTGAGGC
TGCAGTGATTGTGATTCTCATCCTGGTGTGGGAAGGAATCCCGCTGTCTCTGGCTGACAACTCTACTCGGAGCT
TACCGAGACGCTGAGGAAATACGGCACGCTCACCAATCGCCGGTGTGCCTTGAATGAAGAGAGAACTTGCGCCTG
TCAGGGGCTGGATCCAGAAACCTGTGGTGCCTCCTTCTCTTTTGGTTGTTTCATGGAGCATGTACTACAATGGATG
TAAGTTTGCCAGAAGCAAGATCCCAAGGAAGTTTAAGCTGCTTGGGGATGACCCAAAAGAGGAAGAGAACTGGA
GTCTCATTGCAAAACCTGTCCACTCTTATGGCACCAACATATAAGAACTTGACCTGATGCATATAATAATCA
GATTGAATATGAACACAGAGCACCAGAGTGCCGTCTGGGTCTGAAGGAAGGCCGTCCATTCTCAGGGGTCACTGC
ATGTTTGGACTTCTGTGCTCATGCCCACAGAGACTTGACAAACATGCAGAATGGCAGCACATTGGTATGCACTCT
CACTAGAGAAGACAATCGAGAATTTGGAGGAAAACCTGAGGATGAGCAGCTTCACGTTCTGCCTTTATACAAAGT
CTCTGACGTGGATGAGTTGGGAGTGTGGAAGCTCAGGAGGAGAAAAACGGAGTGGTGCCATTTCAGGTACTGAG
TTCTTTTCGGCGAAAAGTCAGGATGTTAGCAGAGCCAGTCAAGACTTGCCGACAAAGGAACTAGAAGCCAAGAA
AGCTGCAGCTGAAAAGCTTTCCTCCCTGGAGAACAGCTCAAATAAAAAATGAAAAGGAAAAGTCAGCCCCATCACG
TACAAAACAACTGAAAACGCAAGCCAGGCTAAACAGTTGGCAGAACTTTTGCGACTTTCAGGACCAGTCATGCA
GCAGTCCCAGCAGCCCCAGCCTCTACAGAAGCAGCCACCACAGCCCCAGCAGCAGAGACCCAGCAGCAGCA
GCCACATCACCTCAGACAGAGTCTGTCAACTCTTATTCTGCTTCTGGATCCACCAATCCATACATGAGACGGCC
CAATCCAGTTAGTCCTTATCCAACTCTTCACACACTTCAGATATCTATGGAAGCACCAGCCCTATGAACCTCTA
TTCCACCTCATCTCAAGCTGCAGGTTTCATATTTGAATTCTTCTAATCCCATGAACCTTACCCTGGGCTTTTGAA
TCAGAATACCCAATATCCATCATATCAATGCAATGGAACCTATCAGTGGACAACCTGCTCCCCATATCTGGGTTC
CTATTCTCCCCAGTCTCAGCCGATGGATCTGTATAGGTATCCAAGCCAAGACCTCTGTCTAAGCTCAGTCTACC
ACCCATCCATACACTTTACCAGCCAAGGTTTGGAAATAGCCAGAGTTTACATCTAAATACTTAGGTTATGGAAA
CCAAAATATGCAGGGAGATGGTTTCAGCAGTTGTACCATTAGACCAAATGTACATCATGTAGGGAAATTGCCTCC
TTATCCCACTCATGAGATGGATGGCCACTTCATGGGAGCCACCTCTAGATTACCACCCAATCTGAGCAATCCAAA
CATGGACTATAAAAAATGGTGAACATCATTACCTTCTCATAATCCATAACTACAGTGCAGCTCCGGGCATGTT
CAACAGCTCTCTTCATGCCCTGCATCTCCAAAACAAGGAGAATGACATGCTTTCCACACAGCTAATGGGTTATC
AAAGATGCTTCCAGCTCTTAACCATGATAGAAGTGTGTTGTCCAAGGAGGCTTACACAAATTAAGTGATGCTAA
TGGTCAGGAAAAGCAGCCATTGGCACTAGTCCAGGGTGTGGCTTCTGGTGCAGAGGACAACGATGAGGTCTGGTC
AGACAGCGAGCAGAGCTTCTGGATCCTGACATTGGGGAGTGGCCGTGGCTCCAACCTCATGGGTCAATTCTCAT
TGAGTGTGCAAAGCGTGAGCTGCATGCCACAACCCCTTTAAAGAATCCCAATAGGAATCACCCACCAGGATCTC
CCTCGTCTTTTACCAGCATAAGAGCATGAATGAGCCAAAACATGGCTTGGCTCTTTGGGAAGCCAAAATGGCTGA
AAAAGCCCGTGAGAAAGAGGAAGAGTGTGAAAAGTATGGCCAGACTATGTGCCTCAGAAAATCCCATGGCAAAAA
AGTGAAACGGGAGCCTGCTGAGCCACATGAACTTCAGAGCCCACTTACCTGCGTTTTTCATCAAGTCTCTTGCCGA
AAGGACCATGTCCGTGACCACAGACTCCACAGTAACATCTCCATATGCCTTCACTCGGGTCACAGGGCCTTA
CAACAGATATATATGATATCACCCCTTTTGTGGTTACCTCACTTGAAGAGACCACAACCAACCTGTCAGTAGT
ATAGTTCTCATGACGTGGGCAGTGGGGAAGGTCACAGTATTTCATGACAAATGTGGTGGGAAAAACCTCAGCTCA
CCAGCAACAAAAGAGGTTATCTTACCATAGCACTTAATTTTCACTGGCTCCCAAGTGGTCACAGATGGCATCTAG
GAAAAGACCAAAGCATTCTATGCAAAAAGAAGGTGGGGAAGAAAGTGTTCCGCAATTTACATTTTAAACACTGG
TTCTATTATTGGACGAGATGATATGTAAATGTGATCCCCCCCCCGCTTACAACCTTACACATCTGTGACCACT
TTTAATAATATCAAGTTTGCATAGTCATGGAACACAAATCAAACAAGTACTGTAGTATTACAGTGACAGGAATCT
TAAAATACCATCTGGTGTGAATATATGATGTACTGAAATACTGGAATTATGGCTTTTGAAGTGCAGTTTTTAC
TGTAATCTTAACCTTTTATTTATCAAAATAGCTACAGGAAACATGAATAGCAGGAAAACACTGAATTTGTTTGGAT
GTTCTAAGAAATGGTGCTAAGAAAATGGTGTCTTTAATAGCTAAAAATTTAATGCCTTTATATCATCAAGATGCT
ATCAGTGTACTCCAGTGCCCTTGAATAATAGGGGTACCTTTTCATTCAAGTTTTTATCATAATTACCTATTCTTA
CACAAGCTTAGTTTTTAAATGTGGACATTTTAAAGGCCCTCTGGATTTTGTCTATCCAGTGAAGTCCTTGTAGGA
CAATAAACGTATATATGTACATATATACACAAACATGTATATGTGCACACACATGTATATGTATAAATATTTTAA
ATGGTGTTTTAGAAGCACTTTGTCTACCTAAGCTTTGACAACCTGAACAATGCTAAGGTACTGAGATGTTTTAAA
AACAAGTTTACTTTTCATTTTAGAAATGCAAGTTGATTTTTTAAAGGAAACAAAGAAAGCTTTTTAAATATTTTTG
CTTTTAGCCATGCATCTGCTGATGAGCAATTGTGTCCATTTTAAACACAGCCAGTTAAATCCACCATGGGGCTTA
CTGGATTCAAGGAATACGTTAGTCCACAAAACATGTTTTCTGGTGTCTATCTCACATGCTATACTGTAAAACAG

FIGURE 1474B

TTTATACAAAATTGTATGACAAGTTCATTGCTCAAAAATGTACAGTTTAAAGAATTTTCTATTAACTGCAGGTA
ATAATTAGCTGCATGCTGCAGACTCAACAAAGCTAGTTCCTGAGCCTATGCTATTTTATGGATCATAGGCTCT
TCAGAGAACTGAATGGCAGTCTGCCTTTGTGTTGATAATTATGTACATTGTGACGTTGTCAATTCCTTAGCTTAAG
TGTCCTCTTTAACAAGAGGATTGAGCAGACTGATGCCTGCATAAGATGAATAAACAGGGTTAGTCCATGTGAAT
CTGTCAGTTAAAAAGAAACAAAAACAGGCAGCTGGTTTGTCTGTGGTGGTTTTAAATCATTAAATTTGTATAAAGAA
GTGAAAGAGTTGTATAGTAAATTAAATTGTAAACAAACTTTTTTAATGCAATGCTTTAGTATTTTAGTACTGTA
AAAAAATTAAATATATACATATATATATATATATATATATATATATATATGAGTTTGAAGCAGAATTCACATCAT
GATGGTGCTACTCAGCCTGCTACAAATATATCATAATGTGAGCTAAGAATTCATTAAATGTTTGAGTGATGTTCC
TACTTGTCAATACCTCAACACTAGTTTGGCAATAGGATATTGAACTGAGAGTGAAAGCATTGTGTACCATCAT
TTTTTCCAAGTCCTTTTTTTTTTATTGTTAAAAAAGCATAACCTTTTTTCAATACTTGATTTCCTAGCAAGTAT
AACTTGAACCTCAACCTTTTTGTTCTAAAAATTCAGGGATATTCAGCTCATGCTCTCCCTATGCCAACATGTCA
CCTGTGTTTATGTAAAATTGTTGTAGGTTAATAAAATATATTCTTTGTCAGGGATTTAACCCTTTTATTTTGAATC
CCTTCTATTTTACTTGTACATGTGCTGATGTAACTAAAACTAATTTTGTAATCTGTTGGCTCTTTTTATTGTAA
AGAAAAGCATTTTAAAAGTTTGAGGAATCTTTTGACTGTTTCAAGCAGGAAAAAATTACATGAAAATAGAA
GCACTGAGTTGATAAAGGGAATAATTGTAAGGCAGGAGTTTGGCAAGTGGCTGTTGGCCAGAGACTTACTTGTA
CTCTCTAAATGAAGTTTTTTTTGATCCTGTAATCACTGAAGGTACATACTCCATGTGGACTTCCCTTAAACAGGCA
AACACCTACAGGTATGGTGTGCAACAGATTGTACAATTACATTTTGGCTTAAATACATTTTGCTTACTAGTATT
TAAAATAAATTCCTTAATCAGAGGAGGCCCTTGGGTTTTATTGGTCAAACTTTTGTAAGCTGGCTTTTGCTTTTT
AAAAAATTTCTTGAATTTGTGGTTGTGTCCAATTTGCAAACATTTCCAAAAATGTTTGCTTTGCTTACAAACCAC
ATGATTTTAAATGTTTTTTGTATACCATAATATCTAGCCCCAAACATTTGATTACTACATGTGCATTGGTGATTTT
GATCATCCATTCTTAATATTTGATTTCTGTGTCACCTACTGTCATTTGTTAAACTGCTGGCCAACAAGAACAGGA
AGTATAGTTTGGGGGGTTGGGGGAGAGTTTACATAAGGAAGAGAAGAAATTGAGTGGCATATTGTAAATATCAGAT
CTATAATTGTAAATATAAAACCTGCCTCAGTTAGAATGAATGGAAAGCAGATCTACAATTTGCTAATATAGGAAT
ATCAGGTTGACTATATAGCCATACTTGAAAATGCTTCTGAGTGGTGTCAACTTTACTTGAATGAATTTTTTCATCT
TGATTGACGCACAGTGATGTACAGTTCACTTCTGAAGCTAGTGGTTAACTTGTGTAGGAAACTTTTGCAGTTTGA
CACTAAGATAACTTCTGTGTGCATTTTTCTATGCTTTTTTAAAACTAGTTTCATTTTCATTTTCATGAGATGTTT
GGTTTATAAGATCTGAGGATGGTTATAAAATACTGTAAAGTATTGTAATGTTATGAATGCAGGTTATTTGAAAAGCTG
TTTATTATTATATCATTCCTGATAATGCTATGTGAGTGTTTTTTAATAAAATTTATATTTATTTAATGCACTCT

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FIGURE 1475

MAPTYKKLAPDAYNNQIEYEHRAPCERLGLKEGRPFSGVTACLDCAHAHRDLHNMQNGSTLVCTLTREDNREFG
GKPEDEQLHVLPLYKVSDVDEFGSVEAQEEKKRSGAIQVLSSFRKVRMLAEPVKTCRQRKLEAKKAAAEKLSSL
ENSSNKNEKEKSAPSRKQTENASQAKQLAELLRLSGPVMQSQQPQLQKQPPQPQQQRPQQQQPHHPQTESV
NSYSASGSTNPYMRRPNFVSPYPNSSHTSDIYGSTSPMNFYSTSSQAAGSYLNSSNPMNPYPGLLNQNTQYPSYQ
CNGNLSVDNCSPLYLGSYSPQSQPMDLRYRPSQDPLSKLSLPP IHTLYQPRFGNSQSFTSKYLGYNQNMQGDGFS
SCTIRPNVHHVGKLPPYPTHEMDGHFMGATSRLPPNLSNPNMDYKNGEHHSPSHI IHNYSAAPGMFNSSLHALHL
QNKENDMLSHTANGLSKMLPALNHDRTACVQGLHKLSDANGQEKQPLALVQGVASGAEDNDEVWSDSEQSFLDP
DIGGVAVAPTHGSILIECAKRELHATTPKPNPNRNHPTRISLVFYQHKSMEPKHGLALWEAKMAEKAREKEEEEC
EKYGPDYVPQKSHGKKVKREPAEPHETSEPTYLRFIKSLAERTMSVTTDSTVTTSPYAFTRVTGPYNRYI

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FIGURE 1476

AGGCACAGGCAGCCTGCATACACTCCTTTTCCTGGTGTCAACATTATTTAAAAGCATGGGAAATAGTAATGAGAC
AGTGTCTTCTTCATTAGAACCTTAGGAGTCTACTAGATTTCTTCATCTCTATTTGTTGTTATTAGTAGCCAAACT
GTGCAAAAAACACGGTCTTGAGAAATGACAGCACAGTATCTTAGAGGGAAAGGAAATGTAGGATGCCAGTGTGGG
GACAAATTTCTGATTGCCAGTGATTGTTGTGAGCATAACAATAATTTTCATGAACATTAAAGCCTCTATTGAGGGC
AGCTGCAGTTGTAAAGGAAAAAAATGGTCCTGAACATTTAAACTACACTGGTGTACATCATAATCAAACAAAG
TAAACAGAAAAAATTTAAACTTTGCTAAAAAAGCAGAAGCACTTGATCTTTAGGAAGGCACGCAGTTGC
TTATTATGAATCATTTCTAGAGTCCGATGCATTTTCAAAGCCGGTTACAGTCATTACGAAGCACACCCTTGTGAG
GTAAGTGTATCATCACCTTTGGTTTATAAATAAAAAAGCTGAGACGCCGAGCGATTAAAGTCACTCGCCTAAGGAG
AATGAGTCAACGTCAAGAGTCATAGTTGACCCGGCTAAAGACTCCAGACCATCAGTCCAGGGCTTAGTCAGCGG
GGCCCGGAGTGGCTTCCCTGGCTGGCATCTGGACTTAGGCTATTTCCGTGCACGTAAAGCGGAATATTGGAACG
GTGACAGAACTTCCAAATAATTTTACCGCCACGCAAGATTTAGCCCTGAGGTCTTAATCTCAGGATTTGGGA
CAGTAAAAGCTGTCTCCCTCCCTCCCTCGTCCAGCCGGTGGCAAGCGGGTACTGCGGGCGGTTCCGTCCGTCCCT
TTCGCAGAAATGGCAACGAATGACCACCAGCATTAGCTGAGCCAGGGGACGTGGGAGGGTTGATTGCCTAAACGA
CTCTGCATCGCCGCTCTTTTGAACATAAGAGAAAAATGGTGGGAGATCAAAGAAAACTAAATAAACACACAGG
CAACTTGTCTGGGACCTCAACTAAGCAATGAAGCCTTATGTGTGTGCTGAGCCTGCAGTTCCCAACCTTCCG
GGGAAGATGGGAGGACAGGGCGACAAAGGGCACAGTAGGCTTGCCTGGCAGTAAGTGTGACCGCAGCTATCCAGG
CGGAAGAGCAGAGGACTGAAACCACCCTCCAGCAAGCGAGTGTCCGCCGCGTTGAGAACCGCGCACCTACCCAT
CGGCCACGTGACCAGTCTTTTTAAAAAATTTCTTTACCTTAAAAAAGGTGGGGGAGAG
ACTCCACTTCCCAGAAGCCTCTCGTTACTCACGCAGCCGAGTCTTGCAGGTTGCCGCCAGGGCCAAACGGACA
TATCCGTACGTGGCCAGAAGCTGGCCAATCCGGTTGAATCTCATTTTTTCTCTTACCCCCCTTCTGGAGC
GGTTGTGCGATCAGATCGATCTAAGATGGCGACTGTGCAACCGGAAACCACCCTACTCCTAATCCCCGACTAC
AGAAGAGGAGAAAACGGAATCTAATCAGGAGGTTGCTAACCAGAACTATATTAAACATCCCTACAGAACAG
ATGGGCACTCTGGTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACTGCGGCTGATCTCCAAGTTTGA
TACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTC
ACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATT
GAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTT
TGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGAC
TACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCTCCAAA
GATAGTGATTGGTTATCAGTCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAATAGGTTTGTGT
TTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAGCC
TCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCCATCTTAATGTTACTCAGATATAAGAGAAGTCTCA
TTGCGCTTTGTCTTGTACTTCTGTGTTTCAATTTTTTTTTTTTTTTTGGCTAGAGTTTCCACTATCCCAATCAAAG
AATTACAGTACACATCCCAGAATCCATAAATGTGTTCTGGCCACTCTGTAATAGTTCAGTAGAATTACCATT
AATTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACTTGGCATTCTTATACTTTACAGGAAAAAA
TTCTGTTGTTCCATTTTATGCAGAAGCATATTTGCTGGTTTGAAGATTATGATGCATACAGTTTCTAGCAAT
TTTCTTTGTTTCTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAATTTATTTGTTT
CCCTACTTGATAATATTAGTGATTCTGATTTTCACTTTTGTGTTTTGCTTTTGTGTTTTTCTCATGTAACA
TTGGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAAATTTGTGCATTCTTTGGTAATTTTTTT
GTTTTTTGTAACATAAAAGCTTTGCTACAAATTTATGCATTTCAATCAATCAGTGATCTATGTTTGTGTGATT
CCTAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCTAAGTAGAATTAGTATGTCTGTTTT
TGTATCTTTATGCTGTATTTTAACTTTGTATTACTTAGGTTATTTTGGCTTTGGTTAAAAATGGCTCAAGTAGA
AAAGCAGTCCCATTATATTAAGACAGTGTACAAAAGCTGTAATAAAATGTGTACAGTGAATTGTCTTTTAGACA
ACTAGATTTGTCTTTTATTTCTCCATCTTTATAGAAGGAATTTGTACTTCTTATTGCAAGGCAGTCTCTATATT
ATGTCTTCTTTTGTGGTGTCTTCCATGTGAACAGCATAAGTTTGGAGCACTAGTTTGATTATTATGTTTATTACA
ATTTTAAATAAATTGAATAGGTAGTATCATATATATGGA

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FIGURE 1477

AGCGGCACGCACACAGCTCGAGCACCGCCCTTCCGGTTGGAGCCATTGCAAGCCCCCCCCACGCCCCGCCCCC
TCGCTAGGCGCTCGCCACGCCCATGCCTCCGTCGCTGCGCGGCCACCCCGGATGTCAGCCCCCGCGCCGACCA
GAATCCGTGAACATGGCGAACGAGGTTATCAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCTCC
ATAGAGGAGATAGAGGTGGCACCCCCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTGCGGTTTGCCAC
ACCGATGCCTATACCCTGAGTGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCTGGA
ATTGTGGAAAGTGTTGGTGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACCTTTACATCCCACAG
TGTGGAGAAATGCAAATTTTGTCTAAATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAGGA
TTAATGCCAGATGGTACCAGCAGATTTACTTGCAAAGGAAAGACAATTTTGCATTACATGGGAACCAGCACATTT
TCTGAATACACAGTTGTGGCTGATATCTCTGTTGCTAAAATAGATCCTTTAGCACCTTTGGATAAAGTCTGCCTT
CTAGGTTGTGGCATTTC AACCGGTTATGGTGCTGCTGTGAACACTGCCAAGTTGGAGCCTGGCTCTGTTTGTGCC
GTCTTTGGTCTGGGAGGAGTCGGATTGGCAGTTATCATGGGCTGTAAAGTGGCTGGTGCTTCCCGGATCATTGGT
GTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAACCTCAGGATTTT
AGTAAACCCATCCAGGAAGTGCTCATTGAGATGACCGATGGAGGAGTGGACTATTCCTTTGAATGTATTGGTAAT
GTGAAGGTCATGAGAGCAGCACTTGAGGCATGTCACAAGGGCTGGGGCGTCAGCGTCGTGGTTGGAGTAGCTGCT
TCAGGTGAAGAAATTGCCACTCGTCCATTCCAGCTGGTAACAGGTCGCACATGGAAAGGCCTGCCTTTGGAGGA
TGGAAGAGTGTAGAAAGTGTCCCAAAGTTGGTGCTGAATATATGTCCAAAAGATAAAAGTTGATGAATTTGTG
ACTCACAATCTGTCTTTTGTGAAATCAACAAAGCCTTTGAACTGATGCATTCTGGAAAGAGCATTGCAACTGTT
GTAAAGATTTAATTCAAAAAGAGAAAAATAATGTCCATCCTGTGCTGATGTGATAGGAGCAGCTTAACAGGCAGGG
AGAAGCGCCTCCAACCTCACAGCCTCGTAGAGCTTCACAGCTACTCCAGAAAATAGGGTTATGTGTGTCATTCT
GAATCTCTATAATCAAGGACAAGGATAATTCAGTCATGAACCTGTTTTCTGGATGCTCCTCCACATAAATAATTG
CTAGTTTATTAAGGAATATTTTAACATAATAAAAGTAATTTCTACATTTGTGTGGAAATTGTCTTGTTTTATGCT
GTCATCATTGTACGGTTTGTCTGCCATTATCTTCATTCTGCAAGGGAAAGGGAAAGGAAGCAGGGCAGTGGTG
GGTGTCTGAAACCTCAGAAACATAACGTTGAACTTTTAAGGGTCTCAGTCCCGTTGATTAAAGAACAGATCCTA
GCCATCAGTGACAAAGTTAATCAGGACCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTTG
TTCATACCTGTACCCCCAAATTCCTAGGATGGCATCTGCCCTTCAGGGGGCACTAAAATGTATTATTGAAACAGCA
TTCTGGGCTTAAATAGGTGTATGTATGTGTTGGTTGTGACTGTACTATTTCTAGTATAGTGAACCTACATACTGAA
TATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCGAGATCACATTGCCATTCTCCC
CTCCAGAGGTAACAATTATCCACAATTTGATGTTTATCATTCCTGTGTTGTTGTACTTTCACTGTGTATAACCTA
AACCATCTACTCTTTAGTACTGTTTTATATATTTTAAAGCCTCATACTTGCTCATTCTACAGCTTTTTTCACTCA
TTATTGTATAATTATATCTGAAGCTCTCGTTTCAATTTTGTAGTCTGTGTAGCAGAATTCAATTACGGGAACCTA
CCATAATTTATCTGTTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTATAACACTGTAGTGGAACA
TTCTTCTGCATTGGGCTCACTGCGTGTTACCTAAGACGTATCACAGAATAAACACATTTAGCCTTATAGACATTG
CCAAATTGCTCTTCAAAGTAAATGTGAGTTTTTGTGAATTACATGAGTATGGAATGGTGTTTTATTATGACTTTA
GTTTGCATTTTCTCAA

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FIGURE 1478

CGCAGTTTGAATCGCGGTGCGACGAAGGAGTAGGTGGTGGGATCTCACCGTGGGTCCGATTAGCCTTTTCTCTGC
CTTGCTTGCTTGAGCTTCAGCGGAATTCGAAATGCTGGCGGTAAGGCTGGAAAGGACTCCGGAAAGGCCAAGAC
AAAGGCGGTTTCCCGCTCGCAGAGAGCCGGCTTGCAAGTTCCAGTGGGCCGTATTCATCGACACCTAAAATCTAG
GACGACCAGTCATGGACGTGTGGGCGCGACTGCCGCTGTGTACAGCGCAGCCATCCTGGAGTACCTCACCGCAGA
GGTACTTGAAGTGGCAGGAAATGCATCAAAAGACTTAAAGGTAAAGCGTATTACCCCTCGTCACTTGCAACTTGC
TATTCGTGGAGATGAAGAATTGGATTCTCTCATCAAGGCTACAATTGCTGGTGGTGGTGTTCATTCCACACATCCA
CAAATCTCTGATTGGGAAGAAAGGACAACAGAAGACTGTCTAAAGGATGCCTGGATTCCCTTGTATCTCAGGACT
CTAAATACTCTAACAGCTGTCCAGTGTGGTGATTCCAGTGGACTGTATCTCTGTGAAAAACACAATTTTGCCTT
TTTGTAAATCTATTTGAGCAAGTTGGAAGTTTAATTAGCTTTCCAACCAACCAATTTCTGCATTGAGTCTTAA
CCATATTTAAGTGTTACTGTGGCTTCAAAGAAGCTATTGATTCTGAAGTAGTGGGTTTTGATTGAGTTGACTGTT
TTTAAAAAAGTGTGGATTTTAATTGTGATGCAGAAGTTATAGTAACAAACATTTGGTTTTGTACAGACATTAT
TTCCACTCTGGTGGATAAGTTCAATAAAGGTCATATCCCAAACATAAA

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FIGURE 1479

MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRIHRHLKSRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIKSLIGKKGQKTV

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FIGURE 1480

AAGATGCTGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCCTGCTGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCTGTTTGAGGAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAGA
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCAGCAGAGAGCCATCCTCTATAAGCGGCTG
AAAGTGCCTCCTGCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC
CACAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGGCTGTTGGCCCAGGCCGAGAAGAAAGCTGCTGGCAAAGG
GGACGTCCCCACCAAGAGACCACCTGTCCTTTGAGCAGGAGCTGGCTGTCTTCTTGCCTGCCCTATGTCGTAAAA
TGGTGGTCCCTTAGTGCAATTATCAAGAGGAAGGCAAGACTGGGACGTCTCGTCCACAGGAAGACCTGCACCACTG
TCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTTGGCTAAGCTGGTGGAAGCTATCAGGACCAATTACA
ATGACAGATACGATGAGATCTGCCGTCCTGGGGTGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGCATTGCCA
AGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTGGGTTAAATGTGCACTGTTGAGTTTTCTGTACATA
AAAATAATTAAATAATACAAATTTTCCTTCAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1481

MLKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEERPKNFGIGQDIQPKRDLTRFVKWPRYIRLQQQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKKAVGPGREESCWQRGRPHQETTCPLSSWLSSCLPYVVKWW
SLSALSRGRQDWDVSSSTGRPAPLSPSHR

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FIGURE 1482

CCTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCA
CGTGCAGCCTATTGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTG
AAACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAATAAAATGGAAATTGTACTTA

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FIGURE 1483

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTATTCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGC GTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGCAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAGGTGTTAAAAAAA
AAAAAATAAAGGACCTCTGGGCTACAA

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FIGURE 1484

ATGAATTTTGAACCCTTATCCTTGAGCACTGATCAATTTTCTAAAGTTACTGGGGGTGTGGAAACAGTAAAGCTT
AAACTGACACAAGATGAAATAGAAAACCTTACATTGCCCTGTCTCCATTAAGGAACTTGAAGAAGCCAAATTGGCA
GAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGCAAGTCTGGAAGGGTG
CAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAACTGCCTGCTCCTTCCTGCAGGAGCTGGTGTCC
GTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCCTGGGACACGTGAAGCACAACTTAGGAAGCAGCAG
CAGGGAGGAGTGGCTGTGACATCACAGCCTGTGACTCTACTGGTGCAACAAGCAGTAACCCCTCTGGGCACCTCT
AGCTCTCTCTCAGGGCCCTGGGGCCACACTGGTGAAGCAAGGCCCCCGAAGGCGAGTCCCATCCCCTTTCCACCC
CGAGAAAAGCACCTTTCCCCAAAGCCACAGCCCTGCCAGGGGTTCTATCTCCTCTCTCAGGCCAAATAA

1606/6881
FIGURE 1485

GGGAAGTGCTGTTGGAGCCGCTGTGGTTGCTGTCCGCGGAGTGGAAGCGCGTGCTTTTGTGTTGTGTCCCTGGCCA
TGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCCTGCGCGGGAGCGCCGAAATCGTGGCCGAGTTCTTCTCAT
TCGGCATCAACAGCATTTTATATCAGCGTGGCATATATCCATCTGAAACCTTTACTCGAGTGACAGAAATACGGAC
TCACCTTGCTTGTAAGTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACAACCTGAAAGATTGGT
TATACAAGTGTTTCAGTTTCAGAAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGTCCTGGAAAGATGGC
AGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAGTCTCAGAAAGCTATCCAGG
ATGAAATCCGTTTCAGTGATCAGACAGATCACAGCTACGGTGACATTTCTGCCACTGTTGGAAGTTTCTTGTTTCAT
TTGATCTGCTGATTTATACAGACAAAGATTTGGTTGTACCTGAAAAATGGGAAGAGTCGGGACCACAGTTTATTA
CCAATTCTGAGGAAGTCCGCCTTCGTTCAATTTACTACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAAA
TTCCTGTCAATGACTTGAGGATGACATGAGGAAAATAATGTAATTGTAATTTTGAAATGTGGTTTTCTTGAAATCA
GGTCATCTATAGTTGATATGTTTTATTTTCATTGGTTAATTTTTACATGGAGAAAACCAAAATGATACTTACTGAA
CTGTGTGTAATTGTTCCCTTTATTTTTTTGGTACCTATTTGACTTACCATGGAGTTAACATCATGAATTTATTGCA
CATTGTTCAAAGGAACCAGGAGGTTTTTTTTGTCAACATTGTGATGTATATTCCTTTGAAGATAGTAACTGTAGA
TGGA AAAACTTGTGCTATAAAGCTAGATGCTTTCCTAAATCAGATGTTTTGGTCAAGTAGTTTGACTCAGTATAG
GTAGGGAGATATTTAAGTATAAAATACAACAAAGGAAGTCTAAATATTGAGAATCTTTGTTAAGGTCCTGAAAGT
AACTCATAATCTATAAACAATGAAATATTGCTGTATAGCTCCTTTTGACCTTCATTTTCATGTATAGTTTTCCCTA
TTGAATCAGTTTCCAATTATTTGACTTTAATTTATGTAACCTGAACCTATGAAGCAATGGATATTTGTACTGTTT
AATGTTCTGTGATACAGAACTCTTAAAAATGTTTTTTCATGTGTTTTATAAAATCAAGTTTTAAGTGAAAGTGAG
GAAATAAAGTTAAGTTTGTTTTAAAAAAAAAAAAAAAAAAAAA

1607/6881
FIGURE 1486

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQIRGIYPSETFTRVQKYGLTLLVTTDLELIKYLNNVVEQLKDW
LYKCSVQKLVVISNIESGEVLERWQFDIECDKTAKDDAPREKSQKAIQDEIRSVIRQITATVTFLPLEVSCS
FDLLIYTDKDLVVPEKWEESSGPQFITNSEEVRLRSFTTTIHKVNSMVAYKIPVND

1608/6881
FIGURE 1487

CTGGGATTACAGGTGTGAGCCATCTTGCTCATTTTAGTTTAACTTTTGAGTGGTTTGTGTCTCCTGATTGGACT
CCTACAAATACAGAATTGATGCTAGGAAGGGTACCAGGAGATAGATGCACACAGATGGGATTTGGGAGTAGGTTT
GGTTATCCAAGGAGCAGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCAGGAAGTGACCTCA
CAATGACTCAAGCTACCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCTGCGAGCTTAGGGGTGC
TACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACCTTGAG
CAGCGGTCTCCAACACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAAGAGAG
ACTGACTGGGCAACATGTTATTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACATGCCCACTGATTCT
ACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCA
TGACTCACAATGGCCTATTTAGGCCCATAACCCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAAC
AGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCTAG
GCCCTGAACTTTCTGAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTG
CATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCATAGCAG
ATTCTTGAGGCCCAGCATCTGCCTCACTGTGGACCCCCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGC
AAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCA
GCTCATGCCTCCCAGCGGCCCTTCCCAGGCCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCTG
GCCTCCTGCCTCCCCGAA

1609/6881
FIGURE 1488

MLLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQPPQAQLHRYNGLFRPSSCLPAFSLGP
ELSEVDLTRPSSCFFAASPGPPLPPVGLYSPNICLIADS

1610/6881
FIGURE 1489

AGGGCCGGGGTGGGGCGCTGGCGTTTCCGTTGCTTGGATCAGTCTAGGTGCAGCTGCGGATCCTTCAGCGTCTGC
ATCTCGGCGTCGCCCCGCGTACCGTCGCCCCGGCTCTCCGCCGCTCTCCCGGGGGTTTCGGGGCACTTGGGTCCCAC
AGTCTGGTCCTGCTTACCTTCCCCTGACCTGAGTAGTCGCCATGGCACAGGTTCTCAGAGGCACTGTGACTGAC
TTCCCTGGATTGATGAGCGGGCTGATGCAGAACTCTTCGGAAGGCTATGAAAGGCTTGGGCACAGATGAGGAG
AGCATCCTGACTCTGTTGACATCCCGAAGTAATGCTCAGCGCCAGGAAATCTCTGCAGCTTTTAAGACTCTGTTT
GGCAGGGATCTTCTGGATGACCTGAAATCAGAACTAACTGGAAAATTTGAAAAATTAATTGTGGCTCTGATGAAA
CCCTCTCGGCTTTATGATGCTTATGAACTGAAACATGCCTTGAAGGGAGCTGGAACAAATGAAAAAGTACTGACA
GAAATTATTGCTTCAAGGACACCTGAAGAACTGAGAGCCATCAAACAAGTTTATGAAGAAGAATATGGCTCAAGC
CTGGAAGATGACGTGGTGGGGGACACTTCAGGGTACTACCAGCGGATGTTGGTGGTTCTCCTTCAGGCTAACAGA
GACCCTGATGCTGGAATTGATGAAGCTCAAGTTGAACAAGATGCTCAGGCTTTATTTTCAGGCTGGAGAACTTAAA
TGGGGGACAGATGAAGAAAAGTTTATCACCATCTTTGGAACACGAAGTGTGTCTCATTGAGAAAGGTGTTTGAC
AAGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACTTCTGGCAATTTAGAGCAACTA
CTCCTTGCTGTTGTGAAATCTATTGGAAGTATACCTGCCTACCTTGCAGAGACCCCTCTATTATGCTATGAAGGGA
GCTGGGACAGATGATCATACCCCTCATCAGAGTCATGGTTTCCAGGAGTGAGATTGATCTGTTTAACATCAGGAAG
GAGTTTAGGAAGAATTTTGCCACCTCTCTTTATTCCATGATTAAGGGAGATACATCTGGGGACTATAAGAAAGCT
CTTCTGCTGCTCTGTGGAGAAGATGACTTAACGTGTACGCGGGAAGAGCTCCCTGCTGTGTGCCTGCACCACCCCA
CTGCCTTCCTTCAGCACCTTTAGCTGCATTTGTATGCCAGTGCTTAACACATTGCCTTATTCATACTAGCATGCT
CATGACCAACACATACACGTCATAGAAGAAAATAGTGGTGCTTCTTTCTGATCTCTAGTGGAGATCTCTTTGACT
GCTGTAGTACTAAAGTGTAATGTTACTAAGTTTAATGCCTGGCCATTTTCCATTTATATATATTTTTTAAG
AGGCTAGAGTGCTTTTAGCCTTTTTTAAAACTCCATTTATATTACATTTGTAACCATGATACTTTAATTAGAAG
CTTAGCCTTGAAATTGTGAACCTCTGGAAATGTTATTAGTGAAGTTCGCAACTAACTAAACCTGTAAAATTATG
ATGATTGTATTCAAAGATTAATGAAAAATAAACATTTCTGTCCCCCTGAATTAT

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FIGURE 1490

MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLLTSRSNAQRQEISA AFKTLFGRDLLDDLKSELTG
KFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYGSSEDDVVGDTSGYYQ
RMLVVLLQANRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVFDKYM TISGFQIEETI
DRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSEIDLFNIRKEFRKNFATSLYSMI
KGDTS GDYKKALLLLCGEDD

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FIGURE 1491

CATAACAAGCCAAACGCCAGACCGAGAGTGCCTCCGTGCGCGAGTGCCCGGTGTGTGCGCGCCGGCGAGAGCAGG
GGCCCCCGCGGCTCCCCGCCCCGCGCGGCCCGAACTCATGCAGCTCCGAGCGAGCGAGCGGGCGCCAGCCCAGCG
CCTCGGCCGAACCCCTCCGCAGCAGGCTGCCTGCTGTTTCCCGGGGAGATCATGAAACGAGGTCGCCTTCCCAGC
AGCAGTGAGGATTCTGACGACAATGGCAGCCTGTCAACTACTTGGTCCCAAGATCCCGATCCCAGCATAGGAGA
AGCTCCTGCTCCAGACATGAAGATCGAAAGCCTTCAGAGGTGTTTAGGACAGACCTGATCACTGCCATGAAGTTG
CATGACTCCTACCAGCTGAATCCGGATGAGTACTATGTGTTGGCAGATCCCTGGAGACAGGAATGGGAGAAAGGG
GTCCAGGTGCCGTGTGAGCCCCGGGACCATCCCTCAGCCTGTGGCCAGGGTTGTGTCTGAAGAGAAATCCCTCATG
TTCATCAGGCCCAAGAAGTACATCGTGTCTATCAGGCTCTGAGCCTCCCGAGTTGGGCTATGTGGACATCCGGACG
CTGGCTGACAGCGTGTGTGCTATGACCTCAATGACATGGATGCTGCATGGCTGGAAGTACCAATGAAGAATTT
AAGGAGATGGGAATGCCTGAAGTAGATGAATACACCATGGAGAGGGTCTTAGAGGAATTTGAGCAGCGATGCTAC
GACAATATGAATCATGCCATAGAGACTGAGGAAGGCCTGGGGATCGAATATGATGAAGATGTTGTCTGTGATGTC
TGCCAGTCTCCTGATGGTGAGGACGGCAATGAGATGGTGTCTGTGACAAATGCAACATCTGTGTGCACCAGGCC
TGTATGGAATCCTCAAGGTACCAGAGGGCAGCTGGCTGTGCCGACATGTGCCCTGGGGGTTTCCAGCCAAAATGT
CTGCTGTGTCCGAAGAAGGGTGGAGCTATGAAGCCCACCCGTAGCGGAACCAAGTGGGTCCACGTTAGCTGTGCT
CTGTGGATCCCTGAGGTGAGCATTGGCAGCCCAGAGAAGATGGAGCCCATACCAAGGTGTACACATTCCCAGC
AGCCGGTGGGCGCTAGTGTGCAGCCTCTGCAATGAGAAGTTTGGGGCCTCTATACAGTGTCTGTGAAGAACTGC
CGCACAGCCTTCCATGTGACCTGTGCTTTTGACCGGGGCTGGAGATGAAGACCATCTTAGCAGAGAATGATGAA
GTCAAGTTCAAGTCTATTGCCCAAAGCACAGCTCACATAGGAAACCCGAGGAGAGTCTTGGCAAGGGGGCTGCA
CAGGAGAATGGGGCCCCCTGAGTGTTCCTCCGGAATCCGCTGGAGCCCTTGGCAGCCTTGAGCAGAACCGGGAG
GAGGCCACCGGGTGAGTGTCCGTAAGCAGAAGCTGCAGCAGTTGGAGGATGAGTTCTACACCTTCGTCAACCTG
CTGGATGTTGCCAGGGCTCTGCGGCTGCCTGAGGAAGTAGTGGATTTCTGTACCAGTACTGGAAGTTGAAGAGG
AAGGTCAACTTCAACAAGCCCCCTGATCACCCCAAAGAAAGATGAAGAGGACAATCTAGCCAAGCGGGAGCAGGAT
GTCTTATTTAGGAGGCTGCAGCTGTTACGCACCTGCGGCAGGACCTGGAGAGGGTAATGATTGACACTGACACC
TTATAGTGACTTAGAGAAGAAGATGCAAAGAGGCGAACGCTCGCCAGAGCAAGAAATGATAGCCAGTCATATAC
TCTCAGACCCTTGTACACACCACAGCATGAGGTTGTGTTGGTTAAAAATATTTATGGGCTGGTAAACTCATTGTA
CATATGTGAAAAGTGTACTGAGTGGGGAGCTTCTTTGTGGTTTTTTTTTTTTTAAAAACACTTTCCCATTAATC
TTTACTGTTTTGTAAAGATCAAATGGGGTGTGTCTTCCCCACCCCATTCCTTCATTCTAGAGCTAGAGTGAATGA
GCCCCAAGAAAATGACCAAGGAGTTGACTCAGGATGTTTACAGACTGATTTAGAAAACAGAACGGATTTCAT
TTCTAATGGAGGGGGCCAGAGATGGGAAAATTTCTTGTTCAGTCCGGGGAAACACACCTAGGTGCTGGTGATGGG
CTTATGAAGGAAGCTAAGCACGGCTGCTCACTGGCCCCCACTTTGTTTTCTTGGGTAATTCACAGGGGAATTTCCCA
GTACTGTCTATGGAGCAGAGCAGGCAGTGGGTGCTGATGTGTGTGCAIGAGCTGTATGTACACATGCATATATCTG
TTACAGAAGATACTCCTGGCAGTGAGGTGCTAAGTCACTAGGCTGTGTGTGTGTGTGTGTGTGCGCGTGCC
CGTGTCCATCCATGTCTCTGTTGTGTGTCTGTGTGCGGGTATGGGTGGGATTCTGCTGGACAGGGGTGTGAGAT
CIGTCTGAGGAGCCCCAGTCATGCTCAGCACGCTACAGATGTGTTGTTTGTGCTGCTTTTGTGCTCCCCCACTTTCC
ATCACCTCTGGAGTCCCGTCTGGACGTCCCTTCCTGCTACAGGAATAATGAGGCGTGGGCTGCCTCCCGCTAGGG
CCTCCTGCTCCCTGTAGGTAGTTTCTGGCTGAGGCTTGCTAATTGGGGATGCTTCTTAGAGCATCTTCCACATCA
ACTCCCCTGGCTGCTGGCTACCGATTAAATTCATTAGTGTGAAAGAGGTGGGAGTGAGGTTTCTGGCCTGAAGC
AGTCTGCACTGAAAGGTACCCAAGTGGCCTGAAACAGTGTAGGGAAAGACCTGGGAAACACTGGACCAAAAAAGC
CTGATCTCATGGAGACCTGCATGGCCCTGTTAGAGATGGCGTAGAAGTGAAGTCTTAAAGGGAGCATTAGAGAT
CCTTTTAATACACGACTGAGTGCCAGCTTATTTGTGATGCCCTTCCCAGACCAGGTTAGGATTCCTGGGAAGGC
CGCGGATTCCGGCCCTGGAAGAGGCAGGATCCTGGAGCAGTTTTGTGAGGCTTTTGTGCTCCCATACGCCCCCTG
GTGGTGAGTGTAAGAAGACTTTGCCTCTCACAACCTACATGTATGTGTGGCATTTTTGTAGAGATGAGAAAAGG
ATTGAGAAGGATAAACTGGAATCCTGGTAAGAAGCCTTTATGCCAGCCCGACACCTGCTGTAATTGGGGTGATG
AGCTATGGAGTCAGATAGTTGTTGGGAGGGGGAGGACAAGAAGTCTATTGTTTGGACTGTGTTGTCTCACAATC
ACCACAAAATAAAAGTGTAGAAAATGCTTGTGGTGTACTAACTCTTTTCTGTACTTAAGTTACTCAGATTAAAT
GCACTTCTAATTCTAAACATTTTTTTTGGAGTCATCACTGTGCTGTTTAAAGTAGAACAATGCCAACGATGTATG
AGAAACAGGGAATAAATCAGGATTTGTGTGTGT

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FIGURE 1492

MKRGRLPSSSEDSDDNGSLSTTWSQNSRSQHRRSSCSRHEDRKPSEVFRTDLITAMKLHDSYQLNPDEYYVLADP
WRQWEKGVQVPVSPGTIPQPVARVVSEEKSLMFIRPKKYIVSSGSEPPELGYVDIRTLADSVCRYDLNDMDAAW
LELTNEEFKEMGMPELDEYTMERVLEEFQRCYDNMNHAIETEEGLGIEYDEDVVCDCVCQSPDGEDGNEMVFCDK
CNICVHQACYGILKVPEGSWLCRTCALGVQPKCLLCPKKGAMKPTRSGTKWVHVSCALWIPEVVSIGSPEKMEPI
TKVSHIPSSRWALVCSLCNEKFGASIQCSVKNCRATFHVTCAFDRGLEMKTILAENDEVKFKSYCPKHSSHRKPE
ESLGKGAQAQENGAFECSPRNPLEPFASLEQNREEAHRVSVRKQKLQOLEDEFYTFVNLLDVARALRLPEEVVDFL
YQYWKLKRKVNFNKPLITPKKDEEDNLAKREQDVLFRRLQLFTHLRQDLERVMIDTDTL

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FIGURE 1493

GTGAGTGTGTGTGCGGTGCGACGGCGTGTGTCTCCGGCCGCGGGTTCCGCCTCCTCCCCTGCCGCCGCTGCTCAGG
GTGTAAGTCAATGTGAAGCAGCAGCTCCAGCCCCGGGATAAACATGGCGACGTCTCTGCAATGAGGGACCCACGAA
CCAGCTGGATCTGCTCATTTCGGGCCGTGGAAGCATCAGTTCACAGCAGTAATGCACACTGTACAGATAAGACAAT
TGAAGCTGCTGAAGCCCTGCTTCATATGGAATCTCCTACCTGCTTGAGGGATTCAAGAAGTCCTGTGGAAGTGT
TGTTCCCTCCTTGTGTATCAACTCCAGAATTCATCCATGCTGCTATGAGGCCAGATGTCATTACAGAACTGTAGT
GGAGGTGTCAACTGAAGAGTCTGAACCCATGGATACCTCTCCTATTCCAACATCACCAGATAGCCATGAACCAAT
GAAAAAGAAAAAAGTTGGCCGTAAACCAAAGACCCAGCAATCACCATTTCCTAATGGGTCTCCTGAGTTAGGTAT
AAAGAAGAAACCAAGAGAAGGAAAAAGGAAACACAACCTATTTGTGGGAGTTTCTTTTAGATCTACTTCAAGATAA
AAATACTTGTCCCAGGTATATTAATGGACTCAGAGAGAAAAAGGCATATTCAAGCTGGTGGATTCAAAGGCTGT
CTCTAAGCTTTGGGGAAAGCATAAGAAACAAACCAGACATGAACATGAAACCATGGGACGAGCTTTGAGATACTA
CTACCAAAGGGGAATTCTTGCAAAGGTTGAAGGACAGAGGCTTGATATATCAGTTCAAGGATATGCCGAAAAACAT
AGTGGTCATAGATGATGACAAAAGTGAAACCTGTAATGAAGATTTAGCAGGAACACTACTGATGAAAAATCATTAGA
ACGAGTGTCACTGTCTGCAGAAAGTCTCCTGAAAGCAGCATCCTCTGTTTCGAGTGGAAAAAATTCATCCCCAT
AACTGCTCCAGAGCAGAGAAGGGTGTAGCTAGAGTTGTGAATATCACTTCCCCTGGGCACGATGCTTCATCCAG
GTCTCCTACTACCACTGCATCTGTGTGACGAACAGCAGCTCCAAGGACAGTTCGTGTGGCAATGCAGGTACCTGT
TGTAATGACATCATTGGGTGAGAAAATTTCAACTGTGGCAGTTCAGTCAGTTAATGCAGGTGCACCATTAATAAC
CAGCACTAGTCCAACAACAGCGACCTCTCCAAAGGTAGTCATTGAGACAATCCCTACTGTGATGCCAGCTTCTAC
TGAAAATGGAGACAAAATCACCATGCAGCCTGCCAAAATTATTACCATCCCAGCTACACAGCTTGACAGTGTCA
ACTGCAGACAAAGTCAAATCTGACTGGATCAGGAAGCATTAACTTGTGGAACCCCATTTGGCTGTGAGAGCACT
TACCCCTGTTTCAATAGCCCATGGTACACCTGTAATGAGACTATCAATGCCTACTCAGCAGGCATCTGGCCAGAC
TCCTCCTCGAGTTATCAGTGCAGTCATAAAGGGGCCAGAGGTTAAATCGGAAGCAGTGGCAAAAAAGCAAGAACA
TGATGTGAAAACCTTTGCAGCTAGTAGAAGAAAAACCAGCAGATGGAAATAAGACAGTGACCCACGTAGTGGTTGT
CAGTGCGCCTTCAGCTATTGCCCTTCCTGTAACATATGAAAACAGAAGGACTAGTGACATGTGAGAAATAAAATAG
CAGCTCCACCATGGACTTCAGGCTGTTAGTGGCAGTACTGACATAAACATTTGCAAGGGAAGTCATCAAGAAAAG
TCAAAGAAGACTTTTAAACATTTTAAATGCATATACAAAAACAATCAGACTTACTGGAAATAAATTACCTATCCC
ATGTTTCAGTGGGAAATGAACATACATATTGAGATGCTGACAGAAAACCTGCCTCTTACAGTAGGAAACAACCTGAAC
CCATCAATAAGAAAAAGGATCGAAAGGGACCAAGCAGCTCACTACGATATCAAGTTACACTAAGACTTGGAACAC
TAACATTCTGTAAGAGGTTATATAGTTTTTTCAGTGGGAGGGGTTGGGATGGGTAATCTCATTGTTACATATAGCAA
TTTTTGATGCATTTTATATGCATACCAGCAATTATTACTGTGTTTCGCACAGTTCCTCACTTAAGTGGTGTATGTG
AAGACTCTGCTAATATAGGTATTTTGAATGTGAATTGAAGAATGGATCCCAAAAACCTTCAGAAAGAGGATAGCA
AAAAAGATCTAGTGCGATTTTATATATATATATATATATATATATACATATATATATATATAGCTTAAG
CTGATTTAAAACAAAGGCCTTAGACTAATTTTCGATTTTCTTCTTGAAATAAGCTAATGGCTTGTGTGTAAA
GCTTTTTTATTAAAAGAAAAATTTTAAAAATCTTGTACCTAGCACAGTATTGTTATAGAATATACATGTAACATT
TTATATGGTAGTTTAACTCTGTGAGTTTCTTAATTGTGGACAAATTAACAGTTGGCTCTGGCCTTTTGTGTAAAC
ATGCCTGTGTCACTCACTTAGCCTTGGCATTGTGTGACACATACCAATTTTCAGTTCGTGTCACTTGGAAGTTC
AGGCTCAGCATGAATTTTTGGCAGGTAGCTCTAATACCTGGAGTTTCTTGTTTTTTTTTCTTTTTTTTAGTTG
AAGTTTATGAGGGAAATACCAGTGTTCAGTTTTGAACATATAATAGTTTGTATATTCAACATTTGAAGTATATTCT
ATTTTGTGTACTCTTGTTCCTTCAAGTGTATTCAAGTAGGTTTTCTGAAATATAGAAATGAAATTTATCTTCTGTT
TTGGTCTCTGGTGATATTTTAAACAATATTTAAAGTCAGTATAGAAGTGTTTTAGTTAGGAAGTGATAAAACAT
CTCTCTTCTCCTTCCCACTACTGCATGAAGAAATCTACTTCCATTATATTAATATTTGG

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FIGURE 1494

GCACGAGGGACTTCTGTTCCAGAGCAAAGGTCATTTCAGCCGCTTGAATCAGCCTTTTCCCCCACC CGGTCCCCA
ACTTTGTTTACCCGATAAGGAAGGTCAGCATTCAAAGTCAAGAAGCGCCATTTATCTTCCCGTGCGCTCTACAAA
TAGTTCCGTGAGAAAGATGGCCGGGAAGTCGATCCTGCTGGCTGCTGTCTCTATTCTCTCGGCCTGTCAGCAAAG
TTATTTTGCTTTGCAAGTTGGAAAGGCAAGATTAAAATACAAAGTTACGCCCCCAGCAGTCACTGGGTCACCAGA
GTTTGAGAGAGTATTTGCGGCACAACAAAAGTGTGTGGAGTTTTATCCTATATTCATAATTACATTGTGGATGGC
TGGGTGGTATTTCAACCAAGTTTTTGCTACTTGTCTGGGTCTGGTGTACATATATGGCCGTCACCTATACTTCTG
GGGATATTCAGAAGCTGCTAAAAAACGGATCACCGGTTTCCGACTGAGTCTGGGGATTTTGGCCTTGTTGACCCT
CCTAGGTGCCCTGGGAATTGCAAACAGCTTTCTGGATGAATATCTGGACCTCAATATTGCCAAGAACTGAGGCG
GCAATTCTAACTTTTTCTCTCCCTTTAATGCTTGCAGAAGCTGTTCCCACCATGAAGGTAATATGGTATCATTT
GTTAAATAAAAATAAAGTCTTTATTCTGTAAAAA

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FIGURE 1495

MAGNSILLAAVSILSACQSYFALQVGKARLKYKVTPPAVTGSPEFERVFRAQQNCVEFYPIFIITLWMAGWYFN
QVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRLSLGILALLTLGALGIANSLDEYLDLNIAKKLRRQF

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FIGURE 1496

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC
CACTGAACTTCTGGTTCGCAAACCTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCT
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACAC
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACACAGCATACGTGG
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTTCATTCTCCCATGGGGTCAAAGGTACCTAAGTATATG
ATTGCGAGTGGA

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FIGURE 1497

ATGAAGAAAGGAAAGCTCATCTCTGCCACATTTCTGGAAAGCGCTGTTCCCGGTGCTCACCTATTGTCTCGCAGG
CAGGTTTCTGAAAGGATGGAGGAAATCTGCAGGAAGCACATGTTTCTGCTTAATTCCTGCCAGCTTTTGGCTGTC
AGACCCCAAATCCTTCAGCCACTAGCCTGTTTCAGGGCCCTGGTTTGATAACCCTGCAATTGCAGAGTGGAGTGGG
AGGAGAAGCCTCATACCTTTGTTTTCTGGTTCTTCCCAACACCCTGGTGGCCTACTTGGGTGTCCACAAGCTC
TCTGTGGAAAATAGTGCACTCTCATTTAGCAACAACCTCCACCTAGCACAAAGTTCTGAGCTATACTTAAACCAGTGG
GGAGAGAGTGTTGGAATGATTAAGGCTTGCAATTCGACTGTGCAAGAAGAACCATTTTCTCTTCATGGTGCTGGAG
GCAGAGATTGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAGGCCTACAA
GCCCAGAGTGCCAGCTCTGGTTTGACCTGGAGGAGCTGGACAAGTATTGGTCTCAGCAGATTGAGGAGAGCGCC
ACAGTGGTCACCACGCAGCCTGCCAAGGTTGGAGCTGCTGAGATGATGCTCACAGAGCTGAGACATACAGTCCAG
TCTTTGGAGATCGACCTGGACTCCTTGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAATGGAGCAGCTCAA
CGGCATCCTGCTGCACCCGGAGTCAGAGCTGGCACAGACCCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCC
CTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCACCACTACTGCCGCCTGCTGGAAGATGACGAGGACTTC
AATCTTGTGGATGGCAAAGTGGTGTCTGAGACCAATGATACCAAAGTTCTGAGACATTAA

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FIGURE 1498

MKKGKLISATFLESAPGAHLLSRRQVSEEMEEICRKHMFLLNSCQLLAVRPQILQPLACSGPWFDNPAIAEWSG
RRSLIPLFFWFFPTPWPTWVSHKLSVENSASHLATTPPSTSSELYLNQWGESVGMKACIRLCKKNHFLFMVLE
AEIEALKEELLFMKKNHEEEVKGLQAQSASSGLTLEELDKYWSQQIEESATVVTTQPAKVGAAEMMLTELRTVQ
SLEIDLDSLRLNKASLENSLNGAAQRHPAAPGVRAGTDPEGQCQAQEYEALLNIKVKLEAEITTYCRLLEDEDF
NLVDGKVVSETNDTKVLRH

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FIGURE 1499

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGAGGGCCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGAGGCAAGGCCGAGGATAAGGAGTG
GATGCCCCTACCAAGTTGGGCCGCTTGGTCAAGGACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTC
TCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTTCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTAT
GCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACGAGGTTCAAGGCATTTCGTTGCTATCGGGGACTACAATGG
CCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGTGGCCACCGCCATCTGTGGGGCCATCATCCTGGCCAAGCT
CTCCATTGTCCCCGTGCACAGAGGCTACTGGGGGAACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGAC
AGGCCGCTGCGGCTCTGTGCTGGTGCACCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCC
TAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCCAGCCCAGGGCTGCACTGCCACCCTGGGCAA
CTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTATCTGACCCCTGACCTCTGGAAAGAGACTGT
ATTTACCAAGTCTCCCTATCAGGACTTCACTGACCACCTAGTCAAGACCCACACCAGAGTCTCCATGCAGCGGAC
TCAGGCTCCAGCTGTGGCTACAACGTAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTGTCAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1500

TGAGAACACGCTGTGTGGCTGAAAAGTGAAGGCAAGAGCTGATTTGGCCTCTGTGCTCCCCCTCCGCAAGGGGATC
GTTTTCTCCAGAAGAGCTGGATATTCTTTTCGCCAGTTATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACC
ATGACAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTCGAATGGGAAAATTAT
GCATAGAGGTTACACCCCAGAGCAAAATAGCATGGATTTCCGAAACTCTTTGTATTGGTTGTGGTATCTGTATTA
AGAAATGCCCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTTGGAAAAAGAAACCACACATCGATATT
GTGCCAATGCCTTCAAACCTTCACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTGGGATTAGTTGGAACTAATG
GTATTGGAAAGTCAACTGCTTTAAAAATTTTAGCAGGAAAACAAAAGCCAAACCTTGGAAAGTACGATGATCCTC
CTGACTGGCAGGAGATTTTGACTTATTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTAGAAGATG
ACCTAAAAGCCATCATCAAACCTCAATATGTAGACCAGATTCCTAAGGCTGCAAAGGGGACAGTGGGATCTATTT
TGGACCGAAAAGATGAAACAAAAGACACAGGCAATTGTATGTCAGCAGCTTGATTTAACCCACCTAAAAGAACGAA
ATGTTGAAGATCTTTCAGGAGGAGAGTTGCAGAGATTTGCTTGTGCTGTCGTTTGCATACAGAAAGCTGATATTT
TCATGTTTGATGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCTCTAA
TAAATCCAGATAGATATATCATTGTGGTGGAAACATGATCTAAGTGTATTAGACTATCTCTCCGACTTCATCTGCT
GTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCACTATGCCTTTTAGTGTAAGAGAAGGCATAAACATTTTTT
TGGATGGCTATGTTCCAACAGAAAACCTTGAGATTGAGAGATGCATCACTTGTTTTTAAAGTGGCTGAGACAGCAA
ATGAAGAAGAAGTTAAAAGATGTGTATGTATAAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAGCTAG
CAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGTATGCTGGGGGAAAATGGAACGGGTAAAACGACAT
TTATCAGAATGCTTGCTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCAGTTATAAGC
CACAGAAAATTAGTCCCAAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTATACTC
ACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAGACATTAT
CTGGTGGTGAACACAGCGAGTAGCTTTAGCCCTTTGCTTGGGCAAACCTGCTGATGTCTATTTAATTGATGAAC
CATCTGCATATTTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTCATACTCCATGCAAAAA
AGACAGCCTTTGTTGTGGAACATGACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGATGGTG
TTCCATCTAAGAACACAGTTGCAAACAGTCCCAAACCTTTTGGCTGGCATGAATAAATTTTTGTCTCAGCTTG
AAATTACATTGAGAAGAGATCCAAACAACCTATAGGCCACGAATAAACAACTTAATTCAATTAAGGATGTAGAAC
AAAAGAAGAGTGGAACTACTTTTTCTTGGATGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATTA
GGAGTATTTACTAGAATTTTTTGTATATAAACTTGAATCAGGATTTTATGCCCCACATACTCTGGAACCTGAA
GTATAATATACTTAATATAACATAAAAAAGCCAGTTGGGTTCTAAATTGTAGTTGAAACACAGAAAATGCCACTTT
TCTGTTCTGAAGAGGCTCTTTTGTGCATAATATTCTAAAATGAAGACATTTCAAGCTATACAAATTACTTCCAA
GTTTTTCATGATGTATGGGAAGATTTTCAGTAGGTGTATTATATTACGGTACCAAATGCTGACCAGTGTTGCTCC
ATTTTTTAAATCTTGAAGGGTTTCTGTACTTACCTGGTTTGCCAAGTATGCCAGTGTAATGAACTGCCCTTA
TTTTAAAGCCAGTCAAAGATTCCACTGATTGACATTTGATAAATAAACATCAGGATTATGTTTATTGTTTGT
TCAGTCTTTGCACTATATTACCAGTATATGGTTTCCGAGGAAGATTATCTACTGCAAAACACCACTGTTGAAAA
ATAGGTATTTTTAAATTGTTTTTAATCTTTTTTGGTGCTTTTAAACATGTTTAGCAAAAACCAATTGAGTTCCAT
TCCCCGCAAAAACCCCTAACTTTACTCTGAACCTTTTTTGTGTTTGCATTCCATGAGGTTCTGTATTGAGTCAT
TCTCTAGGTAATGTCATTTTTGTACACATATATTTATATAATCACTGATTGAGATTTAGGAAAAAGCATTCTAA
AGAATATTTGCTTCCCTTAGAACTACAGACTCGAAATCTTTAAAGATGGTGCCTAAGCATCTATGATTTTTTTT
AAGTTCCACAGATTTTTCTGTTGGGCAGCCAAGGATTATAAACCACTTCCCTAAAGGCAACATTAATGCAAAAGT
CCCCAGATGGCAATACAAAGTATCCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCACATTATC
TAAACCATTTTGTAGTTCCAAAACCCATCTAAATTTCTTGAGTTCCCTGAATTTTGAACAGGATTACCTGGAGCC
TGGAGCCACTTTAAGTTGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGAGTGTTTACTAAATAAATGACT
GGGGCAAGCAAAATTGAGGAGGAAATTAGAACTGTTTGACAACTTTAAGAGCTACTTGAAATAACAGAAGTCT
TGATTAATATGCAATAATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTTAAAAATAATTTAGT
AACCCATAAATACATGTTGTAAAAAATTCAAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATTACCCTC
CCAAAGGTTACCAGCGTTTGAATTTAATAATGTATATTCTTTTCATGCTTTTTTCTGTGCACTTACCTAAGTGTGA
ATATGTAAAGGGTTTGTGTTGTATACAAATGGGATTATACTAAAATAAGTAATGCCTATTTTTAAGGATAGGTTA
AATTTGTGAATGATCATTTCAAATATATTGAATAAAATAAGCAAAAGCTATTGTTATTACTGATCCTG

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FIGURE 1501

MADKLTRIAIVNHDKCKPKKCRQECKKSCPVVRMGKLCIEVTPQSKIAWISETLCIGCGICIKKCPFGALSIVNL
PSNLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSTALKILAGKQKPNLGKYDDPPDWQEILTYFRGS
ELQNYFTKILEDDLKAIKPKQYVDQIPKAAKGTVGSILDRKDETKTQAIVCQQDLTHLKERNVEDLSGGELQRF
ACAVVCIQKADIFMFDEPSSYLDVKQRLKAAITIRSLINPDRIIIVVEHDLVLDYLSDFICCLYGVPSAYGVVT
MPFSVREGINIFLDGYVPTENLRFRDASLVFKVAETANEEVKKMCMYKYPGMKKKMGEFELAIVAGEFTDSEIM
VMLGENGTGKTTFIRMLAGRLKPDEGGEVPLNVSYKPKISPKSTGSRQLLHEKIRDAYTHPQFVTDVMKPLQ
IENIIDQEVQTLSSGGELQRLVALALCLGKPADVYLIDEPSAYLDSEQRLMAARVVKREFILHAKKTAFVVEHDFIMA
TYLADRVIVFDGVPSKNTVANSPTLLAGMNKFLSQLEITFRRDPNNYRPRINKLNSIKDVEQKKSNGYFFLDD

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FIGURE 1502

AGGAAATGAGGCTGAACTTTGTAGTGCCCTCGCTAACCTTCAGACCAGTAAACCAGATGCTGTAGAGCAGACATG
TATATTGGAATCTACAGAAATTGCTTTGCTTAACAACATCCCATATCATGAAGGCTTTAAAATGGCAATGAGCAA
AGTTTTGTCTTCACTGACTCCAGAGAACTGTATCAGACCATGGATACTCACTGTCAGAATGAGATGAGCTCTGG
AACTGGACAGAGTAATACTGTACAGAACATCCTTGAACCTTTCTACGTGTTAGATGTGTCCGAAGGCTTCTCTGT
TCTGCCTGTTATTGCTGGCACACTTGGGCAGGTTAAACCATAACAGTTCTGTGGAGAAAGACCAGCATCGTATTGC
TCTGGACCTCATATCTGAAGCCAATCACTTTCTAAAGAAACACTTGAGTTTGGCTGAGACATGTGGAGGATGA
ATCTGCTATGTTACAAAGGCCAAAATCAGACAAGTTATGGAGCATAATTATATTGGATGTCATTGAGCCATCTGG
GCTCATTACAGCAGGAAATAATGGAAAAAGCTGCAATATCCAGGTGTTTACTACAATCTGGAGGCAAGATCTTCC
TCAGTATGTGCTGATGTTTGGGTTGCTTGTGGAATCAGACACTCCTAGAGGAGAATGCTGTTCAAGGAACAGA
ACGTACTCTTGGATTAAATATAGCACCTTTTATTAACCAGTTTCAGGTACCTATACGTGTATTTTGGACCTATC
CTCATTGCCCTGTATACCTTTAAGCAAGCCAGTGGAACCTCTTAAGACTAGATTTAATGACTCCGTATTTGAACAC
CTCTAACAGAGAAGTAAAGGTATACGTTTGTAAATCTGGAAGACTGACTGCTATTCATTTTGGTATCATATGTA
CCTTGATGAAGAGATTAGGTTGGATACTTCAAGTGAAGCCTCCCACTGGAAACAAGCTGCAGTTGTTTTAGATAA
TCCCATCCAGGTTGAAATGGGAGAGGAACCTGTACTCAGCATTACAGCATCACAAAAGCAATGTCAGCATCACAGT
AAAGCAATGAAGAGCAGTTTTCCAATGAAAACCTGTGTAAATAGAGCATCAACAAGTACAAAATTCTTGTCTTAAT
TAGTGGGGGTATATAAAAATTCCTTGTAATGGTCAAATATTTTTTAAAATTGACATTAATAAAGCATATTTTAAA
AGATTCTAAATAAAAGGGTAGCATTATTATAGAAATACTGCTGCAGATTTGCTTTCTGGAAAAGGATACATCACT
AGTTTTTTTAAATTAGGAAACTTCTTTTGCTCGATTTTACAGAATAGGGATTTTAAAAGTCTTATCGTTATTGACA
TGTGTAAGTAAAGCAAACTTTACTTTTGTAGGCATCTTGGCCTTTTTTCTTAAATCCAACTTGTAATTGGGAA
ACACTGAAAGGCTTCCACTGAAGACTGAGGGTTATGGTTACCTGTAAATTCCAATCTTGCTTCCTTTAAATACTC
AGTGTACATCTGAAACATCTCAGGTTTTGTTTTGAGAATGCAAGCTTGAAAAAGAATTTAAGCTATAAGCTAAAT
GTAATTAACACAGTAAAGGAGTTAGGGAATACATCTTCAGGAGGCAGCATTTTTCTTGGTCTACTTTGGCAAAAG
AACATTTAAAAGCTGGTAACAAAACAAAGTTAAATTGAAGGAAGACTTAATCCTATACTATTTTTCAAAGTTTTG
ATTTGGATGTACAATAAGTACATTAATTGATCCAATTTTTACAACTTTTGAAATAAAGGAAGATCATTATTATG
CCTCCT

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FIGURE 1503

MAMSKVLSSLTPEKLYQTMDTHCQNEMSSGTGQSNTVQNILEPFYVLDVSEGFSVLPVIAGTLGQVKPYSSVEKD
QHRIALDLISEANHFPKETLEFWLRHVEDESAMLQRPKSDKLWSIIILDVIEPSGLIQQEIMEKAAISRCLLQSG
GKIFPQYVLMFGLLVESQTLLEENAVQGTERTLGLNIAPFINQFQVPIRVFLDLSSLPCIPLSKPVELLRLDLMT
PYLNTSNREVKVYVCKSGRLTAIPFWYHMYLDEEIRLDTSSSEASHWKQAAVVDNPIQVEMGEELVLSIQHHKSN
VSITVKQ

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FIGURE 1504

[illegible]

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FIGURE 1505

MIAAQAKLVYQLNKYYTERCQARKAAIAKTIREVCKVVSDVLKEVEVQEPRFISSLSEIDARYEGLEVISPTFEF
VVLVLNQMGVFNFDGSLPGCAVLKLS DGRKRSM SLWVEFITASGYLSARKIRS RFQTLVAQAVDKCSYRDVVK
MIADTSEVKLRIRERYVVQITPAFKCTGIWPRSA AQWPM PHIPWPGPNRVAEVKAEGFNLLSKECYSLTGKQSSA
ESDAWVLQFGEAENRLLMGGCRNKCLSVLKT LRDRHLELPGQPLNNYHMKTL LLYECEKHPRET DWDESLGDRL
NGILLQLISCLQCRRCPHYFLPNLDFQ GKPHSALESAAKQTWRLAREILTNPKSLDKL

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FIGURE 1506

CGCGACTCCCACTTCCGCCCTTTTGGCTCTCTGACCAGCACCATGGCGGTTGGCAAGAACAAGCGCCTTACGAAA
GGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTCTAAGAAAGATTGGTATGATGTGAAAGCACCT
GCTATGTTCAATATAAGAAATATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGT
CTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTG
ATTACTGAAGATGTTTCAAGGGTAAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAATGTGT
TCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGT
CTGTTCTGTGTTGGTTTTACTAAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTC
CGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAAT
AAATTGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTCTTC
GTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGT
AGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAA
GAATCTGTTTAAAGTTTCAAGACTTCAAAATAGTGGCAAATAAAAAGTGCTATTTGTGATGGTTTGCTTCTGAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1507

MAVGKNKRLTKGGKKGAKKKVVDPFSSKDWYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRNNQI
RKTSYAHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFEL
GKLMELHGEGSSSGKATGDETGAVERADGYEPPVQESV

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FIGURE 1508

AAGTCTACATGAAAAGGATGGTTTCTTGGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTAT
TGTGTGTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCGTGGTCATCGAC
CCCTTGACAAGAAGAGAGAAGAGGCTCCCAGCCTGAGGCCTGCCCCACCGCCCATCAGTGGAGGTGGCTATCGGG
CTCGTCCAGCCAAAGCAGCTGCCACTCAAAGAAAGTAGAAAGAAAAGCCCCCTGATGCTGGAGGCTGTCTTCACG
CTGACCCAGACCTGGGGGTGTTGTGTCCTACAGGATGTCAGTTGCAAGAGGCTTTGCTACAACAGGAAAGGCCAA
TCAGAAATAGTGTTGATGAGTTAAATAACAATGTGGAAGCTGTTTCCCAGACCTCCTCTTCTTCCTTTTCAGTACA
TGTATTTGCTGAAAGACCTGTGGCAAAGAGGCAGAAGCAAGTAAAGATAATGAAAATGTAGTCAATGAGTACT
CCTCAGAACTGGAAAAGCACCAATTATATATAGATGAGACTGTGAATAGCAATATCGCAACTAACCTTCGTGTGC
TTCGTTCAATCCTAGAAAACCTGAGAAGCAAAATACAAAAGTTAGAATCTGATGTCTCAGCTCAAATGGAATATT
GTCGCACCCCATGCACCTGTCTAGTTGCAATATTCTGTGGTGTCTGGCAAAGAATGTGAGGAAATTATCAGGAAAG
GAGGTGAAACATCTGAAATGTATCTCATTCAACCTGCAGATTCTGTCAAACCGTATAGAGTATACTGTGACATGA
ATACAGAAAAATGGAGGATGGACAGTGATTGAGAACCGTCAAGACGGTAGTGTTGACTTTGGCAGGAAATGGGATC
CATATAAACAGGGGATTGGAATGTTGCAACCAACACAGATGGGAAGAATTACTGTGGCCTACCAGGTGAATATT
GGCTTGGAATGATAAAATTAGCCAGCTTACCAGGATGGGACCCACAGAACTTTTGATAGAAATGGAGGACTGGA
AAGGAGACAAAGTAAAGGCTCACTATGGAGGATTCAGTGTACAGAATGAAGCCAACAAATACCAGATCTCAGTGA
ACAAATACAGAGGAACAGCCGGTAATGCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAACAGGACCATGA
CCATTACAACGGCATGTTCTTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCCAGAAAAC
AGTGTTCTAAAGAAGACGGTGGTGGATGGTGGTATAATAGATGTCATGCAGCCAATCCAAACGGCAGATACTACT
GGGGTGGACAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGGT
CATGGTACTCAATGAGGAAGATGAGTATGAAGATCAGGCCCTTCTTCCCACAGCAATAGTCCCCCAATACGTAGAT
TTTTGCTCTTCTGTATGTGACAACATTTTTGTACATTATGTTATTGGAATTTTCTTTCATACATTATATTCTCT
AAAACCTCTCAAGCAGACGTGAGTGTGACTTTTTGAAAAAAGTATAGGATAAAATTACATTAAAATAGCACATGATT
TTCTTTTGTTTTCTTCATTTCTTCTGCTCACCAAGAAGTAACAAAAGTATAGTTTTGACAGAGTTGGTGTTCATA
ATTTAGTTCTAGTTGATTGCGAGAATTTCAAATAAGGAAGAGGGGTCTTTTATCCTTGTCGTAGGAAAACCAT
GACGGAAAGGAAAACTGATGTTTAAAAGTCCACTTTTAAAACATATTTATTTATGTAGGATCTGTCAAAGAAA
ACTTCCAAAAAGATTTATTAATTAAACCAGACTCTGTTGCAAT

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FIGURE 1509

MKRMVSWSFHKLKTMKHLLLLLLVCFLVKSQGVNDNEEGFFSARGHRPLDKKREEAPSLRPAPPPISGGGYRARP
 AKAAATQKKVERKAPDAGGCLHADPDLGLVLCPTGCQLQEALLQQERP IRNSVDELNNNVEAVSQPTSSSSSQYMYL
 LKDLWQKRQKQVKDNENVVNEYSSELEKHQLYIDETVNSNIATNLRVLRSILENLRSKIQKLESDVSAQMEYCRT
 PCTVSCNIPVVSQKECEEIIRKGGGETSEMYLIQPDSSVKPYRVYCDMNTENGWTVIQNRQDGSVDFGRKWDPYK
 QGFGNVATNTDGNKYCGLPGEYWLGNDKISQLTRMGPTTELLIEMEDWKGDVKVAHYGGFTVQNEANKYQISVNKY
 RGTAGNALMDGASQLMGENRTMTIHNGMFFSTYDRDNDGWLTS DPRKQCSKEDGGGWWYNRCHAANPNGRYYWGG
 QYTWDMAKHGTDG VVWMNWKGSWYSMRKMSMKIRPFFPQQ

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FIGURE 1510

CTACATGAAAAGGATGGTTTCTTGGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGTG
TGTTTTTCTAGTTAAGTCCAAGGTGTCAACGACAATGAGGAGGTGAATTTTTTAAAGCATTATTATATTATTAG
TAGTATTATTAATATAAGATGTAAACATAATCATATTATGTGCTTATTTTAATGAAATTAGCATTGCTTATAGTTA
TGAAATGGAATTGTTAACCTCTGACTTATTGTATTTAAAGAATGTTTCATAGTATTTCTTATATAAGATGGCTTA
GCTAATGTAAGATGTGTTTTCTCACTTGCTATTCTGAGTACTGTGATTTTCATTTACTTCTAGCAATACAGG

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FIGURE 1511A

GTCTAGGAGCCAGCCCCACCCTTAGAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGGCGTGCCTGGCCCAAGGGTTGTG
GAAAGACATCAATCTGCCTGCAAAGATTGAGACTGGCCCTTCTGCTCTGATGAAGACTGGAACACAAATGCCCT
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTTACAAACAGAATAAATAAGCTCAAAAAT
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTGCTTGACCACTAATAATGGAATTTTGAGAGGC
GATTTTTCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATTGAAGTC
CTGAAGCGCAAAGTCATAGAAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTGAGGGTCATGCAGTAGGGCTTTAGCTCGT
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTGATTGCCAAAGACTTACTTCCCTCT
AGAGATAGGCAACACTTACCACTGATAAAAATGAAACAGTTCCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG
CTTCAGAAGGTACCCCCAGAGTGAAGGCATTAACAGACATGCCGAGATGAGAATGGAGTTAGAGAGACCTGGT
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAAGCCCCAGGAACCTTAGC
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGGACT
GGAGGGACTGCAACCTGGAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA
ACTGGAAGTACTGGAACCAAAACCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT
GAACGCGGAAGTGCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACAACCCAGACTGGGGCACATTTGAAGAG
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAACTGGTCACTTCTAAAGGAGATAAA
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAACCACCACGCGTCGTTTCATGCTCTAAAACCGTT
ACTAAGACTGTTATTGGTCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC
TGTCCCAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTCCCGCATAGGCACCCTGAT
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGA AAAACATTCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCT
GGGATAGCTGAATTCCTTCCCGTGGTAAATCTTCAAGTTACAGCAACAATTTACTAGTAGCACGAGTTACAAC
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTCAGAGACTGTGATGATGTCTCCAAACACATCCT
TCAGGTACCCAAAGTGGCATTTTCAATATCAAGCTACCGGGATCCAGTAAGATTTTTTCTGTTTATTGCGATCAA
GAGACCAGTTTGGGAGGATGGCTTTTGATCCAGCAAAGAATGGATGGATCACTGAATTTTAACCGGACCTGGCAA
GACTACAAGAGAGGTTTCGGCAGCCTGAATGACGAGGGGGAAGGAGAATTCTGGCTAGGCAATGACTACCTCCAC
TTACTAACCCAAAGGGGCTCTGTTCTTAGGGTTGAATTAGAGGACTGGGCTGGGAATGAAGCTTATGCAGAATAT
CACTTCCGGGTAGGCTCTGAGGCTGAAGGCTATGCCCTCCAAGTCTCCTCCTATGAAGGCACTGCGGGTGATGCT
CTGATTGAGGGTTCCGTAGAGGAAGGGGCAGAGTACACCTCTCACAACAACATGCAGTTTCAGCACCTTTGACAGG
GATGCAGACCAGTGGGAAGAGAAGTGTGAGAAGTCTATGGGGGAGGCTGGTGGTATAATAACTGCCAAGCAGCC
AATCTCAATGGAATCTACTACCTGGGGGCTCCTATGACCAAGGAATAACAGTCTTATGAGATTGAGAATGGA
GTGGTCTGGGTTTCCCTTAGAGGGGCGAGATTATCCCTCAGGGCTGTTTCGCATGAAAATTAGGCCCTTGTGACC
CAATAGGCTGAAGAAGTGGGAATGGGAGCACTCTGTCTTCTTGGCTAGAGAAGTGGAGAGAAAATACAAAAGGTA
AAGCAGTTGAGATTCTCTACAACCTAAAAAATTCCTAGGTGCTATTTTCTTATCCTTTGTACTGTAGCTAAATGT
ACCTGAGACATATTAGTCTTTGAAAAATAAAGTTATGTAAGGTTTTTTTTTATCTTTAAATAGCTCTGTGGGTTTT
AACATTTTTGTAAAGATATACCAAGGGCCATTGAGTACATCAGGAAAGTGGCAGACAGAAGCTTCTCTCTGCAAC
CTTGAAGACTATTGGTTTGAGAACTTCTCTTCCCATACCAACCAAAATCATAATGCCATTGGAAAGCAAAAAGTT
GTTTTATCCATTTGATTTGAATTGTTTTAAGCCAATATTTTAAGGTAAAACCTCACTGAATCTAACCATAGCTGAC
CTTTGTAGTAGAATTTACAACCTATAATTACAATGCACAATTTATAATTACAATATGTATTTATGTCTTTTGCTA
TGGAGCAAATCCAGGAAGGCAAGAGAAACATTCTTTCTAAATATAAATGAAAATCTATCCTTTAAACTCTTCCA
CTAGACGTTGTAATGCACACTTATTTTTTTCCCAAGGAGTAACCAATTTCTTTCTAAAACACATTTAAAATTTTA
AACTATTTTATGAATATTA AAAAAGACATAATTACACATTAATAAACAATCTCCCAAGTATTGATTTAACTTC
ATTTTTCTAATAATCATAAACTATATTCTGTGACATGCTAATTATTATTAAATGTAAGTCGTTAGTTGAAAGCC
TCTCACTAAGTATGATCTATGCTATATTCAAAATCAACCCATTTACTTTGGTCAATATTTGATCTAAGTTGCAT
CTTTAATCCTGGTGGTCTTGCTTCTGATTTTTAATTTGTATCCTTTTCTATTAAGATATATTTGTCATTTTCTC

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FIGURE 1511B

TTGAATATGTATTAAAATATCCCAAGC

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FIGURE 1512

MFSMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSAKDSWDWPFCSDEDWNYKCPSGCRMKGLID
EVNQDFTNRINKLKNSLFYQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDYEDQQKQLEQVIAKDLLPSRDRQHPLIK
MKPVVDLVPGNFKSQLQKVPPEWKALTDMPQMRMELERPPGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS
GPGSTGNRNPSSSGTGGTATWKPGSSGPGSTGSWNSGSSSGTSTGNQNPSPRPGSTGTWNPGSSSERGSAGHWTS
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSGDKELRTGKEKVT
SGSTTTTRRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGTILSGIGTLDGFRHRHPDEAAFFDTAST
GKTFFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTSYNRGDSTFESKS
YKMADEAGSEADHEGTHSTKRGHAKSRPVRDCDDVLQTHPSGTQSGIFNIKLPGSSKIFSVYCDQETSLGGWLLI
QQRMDGSLNFNRTWQDYKRGFGSLNDEGEFEFWLGNDYLHLLTQRGSVLRVELEDWAGNEAYAEYHFRVGSEAEG
YALQVSSYEGTAGDALIEGSVEEGAETSHNNMQFSTFDRDADQWEENCAEVYGGGWWYNNCQAANLNGIYYPGG
SYDPRNNSPYEIEENG VVWVSFRGADYSLRAVRMKIRPLVTQ

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FIGURE 1513

GTCTAGGAGCCAGCCCCACCCTTAGAAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGGCGTGCGTGGCCCAAGGGTTGTG
GAAAGACATCAATCTGCCTGCAAAGATTCAGACTGGCCCTTCTGCTCTGATGAAGACTGGAATAAATAAGCTCAAAAAT
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTTACAAACAGAATAAATAAGCTCAAAAAT
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTTCGTTGACCACTAATATAATGGAAATTTTGAGAGGC
GATTTTTCCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTCAGAGGATCTGAGAAGCAGAATTGAAGTC
CTGAAGCGCAAAGTCATAGAAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTGCGAGGGTCATGCAGTAGGGCTTTAGCTCGT
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTCATTGCCAAAGACTTACTTCCCTCT
AGAGATAGGCAACACTTACCACTGATAAAAATGAAACCAGTTCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG
CTTCAGAAGGTACCCCCAGAGTGGAAAGGCATTAAACAGACATGCCGCAGATGAGAATGGAGTTAGAGAGACCTGGT
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAAGCCCCAGGAACCCTAGC
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAACCGAAACCCTGGGAGCTCTGGGACT
GGAGGGACTGCAACCTGGAAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA
ACTGGAAGTACTGGAACCAAAAACCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT
GAACGCGGAAGTGCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACAACCCAGACTGGGGCACATTTGAAGAG
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGGTACCACACAGAAAAACTGGTCACTTCTAAAGGAGATAAA
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAAACCACCGCTCGTTCTATGCTCTAAAACCGTT
ACTAAGACTGTTATTGGTCCTGATGGTCACAAAGAAGTTACCAAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC
TGTCCTCGAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTTCCGCCATAGGCACCCTGAT
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGAAAAACATTCCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCCCT
GGGATAGCTGAATTCCTTCCCGTGGTAAATCTTCAAGTTACAGCAAACAATTTACTAGTAGCACGAGTTACAAC
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTCAGAGGTATCCACACTTCTCCTTTGGGGAAGCCT
TCCCTGTCCCCCTAGACTAAGTTAAATATTTCTGCACAGTGTTCCTATGGCCCCCTTGCAATTCCTTCTTAAGTCT
CTGTTACACGTCATTGAAACTACACTTTTTTGGTCTGTTTTTGTGCTAGACTGTAAGTTCCTTGGGGGCAGGGCC
TTTGTCTGTCTCATCTCTGTATTCCCAAATGCCTAACAGTACAGAGCCATGACTCAATAAATACATGTTAAATG
ATGAATG

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FIGURE 1514

MFSMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSAKDSQDWPFCSDEDWNYKCPSGCRMKGLID
EVNQDFTNRINKLKNSLFQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDIEDQKQLEQVIAKDLLPSRDRQHPLIK
MKPVPDLVPGNFKSQKQVPEWKALTDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS
GPGSTGNRNPGSSGTGGTATWKPGSSGPGSTGSWNSGSSGTSTGNQNPSPRPGSTGTWNPGSSERGSAGHWT
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSGDKELRTGKEKVT
SGSTTTTTRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGT LSGIGTLDGFRHRHPDEAAFFDTAST
GKTFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTSYNRGDSTFESKS
YKMADEAGSEADHEGTHSTKRGHAKSRPVIRGIHTSPLGKPSLSP

'1637/6881
FIGURE 1515

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCAACCCCGGAATTTAATT
CTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATC
TTAGATGAAAGATTTCGGTAGTTATTGTCCAACCTACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAA
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG
ATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAAACCAAATATGATAGACGCTGCTACTTTGAAG
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAAACACATGACTCAAGTATTCGATATTTG
CAGGAAATATATAATTCAAATAATCAAAAGATTGTTAACCTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCTTAGTCTACTGTGAAATCGAT
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACTGGATTCAA
TATAAGAAGGATTTGGACATCTGTCTCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTTG
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAATGGCAGAACCAGTACTGCA
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATAATGGCATG
CAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAAAGCATCTACTCCT
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCCGGTGGTATTCCATGAAGAAAAACCACTATGAAG
ATAATCCCATTCAACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAAACAGGCTGGAGAC
GTTTAAAGACCGTTTCAAAGAGATTTACTTTTTTAAAGGACTTTATCTGAACAGAGAGATATAATATTTTTCC
TATTGGACAATGGACTTGCAAAGCTTCACTTCATTTTAAAGACAAAAGACCCCATGTTGAAAACCTCCATAACAGT
TTTATGCTGATGATAATTTATCTACATGCATTTCAATAAACCTTTTGTTCCTAAGACT

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FIGURE 1516

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQ
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRIMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL
KEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLD
GSVDFKKNWIQYKEGFGHLSPGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY
RLTYAYFAGGDAGDAFDGFDGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGSWWMNKCHAGHLNGVYY
QGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQAGDV

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FIGURE 1517

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCCGGAATTTAATT
CTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATC
TTAGATGAAAGATTTCGGTAGTTATTGTCCAACCTGTGGCATTGCAGATTTTCTGTCTACTTATCAAACCAAA
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG
ATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAACCAAATATGATAGACGCTGCTACTTTGAAG
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAAACACATGACTCAAGTATTCGATATTTG
CAGGAAATATATAATTCAAATAATCAAAAGATTGTTAACCTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCTTAGTCTACTGTGAAATCGAT
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACTGGATTCAA
TATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTTG
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAAGTGGAAAGACTGGAATGGCAGAACCAGTACTGCA
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTACATCCCATATGCGCATG
CAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCT
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCCGGTGGTATTCCATGAAGAAAACCACTATGAAG
ATAATCCCATTCAACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGTCAGACCA
GAGCACCTGCGGAAACAGAATATGACTCACTTTACCCTGAGGATGATTTGTAGAAAATTAAGTCTAACTTCTA
TTGACCCACAAAGTTTCAGAAATCTCTGAAAGTTTCTTCCCTTTTTCTCTTACTATATTTATTGATTTCAAGTC
TTCTATTAAGGACATTTAGCCTTCAATGGAAATTAATACTCATTAGGACTGTATTTCCAAATTACTGATATCAG
AGTTATTTAAAAATTGTTTATTTGAGGAGATAACATTTCAACTTTGTTCCTAAATATATAATAATAAATGATTG
ACTTT

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FIGURE 1518

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQ
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRIMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL
KEKVAQLEAQCQEPCKDTVQIHDI TGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRDL
GSVDFKKNWIQYKEGFGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY
RLTYAYFAGGDAGDAFDGFDGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGGSGWWMNKCHAGHLNGVYY
QGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQVRPEHPAETEDSLYPE
DDL

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FIGURE 1519

AGCAGCCGCCGCCAGACAGCCGCCGCCGCCACCCGTTGCGCCGTCCTCCCTGCCGCATTACAATGCAGCCTGCTTT
TGCAAAGTGGTACGATCGAAGGGACTGTGTCTTCACTGAATCTTGTGTTGAAGACAATAAGGATGTTAATGTAAA
TTTTGAAAAATCCAACTTACATTCAGTTGTCTTGGAGGAAGTGATAATTTTAAGCATTTAAATGAAATTGGTCT
TTTTTACTCTATTGATCCAAATGATTCCAAGCATAAAAGAACGGACAGATCAATTTTATGTTGTTTACGAAAAGG
AGAATCTGGCCAGTCATGGCCAAGGTTAACAAAAGAAAGGGCAAAGATGATGAACAACATGGGTGGGGATGAGGA
TGTAATTTACCAGAAGTAGATGAAGCAGGTGATGATTCACAAGACAGTGATGATGAAAAAATGCCAGATCTGGA
GTAAGAAATATTTATCACCTGGATTTTGAGAAAGAAA

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FIGURE 1520

ATGGTAACCAATGTCAACCAGAATACAAGTGGAGCTCTGTCTTTAAATCAACTGCCACACACTCACATGTCGAAG
ATCCAAATACCCCTTGCAAATGCCTATCCCATTGCCAACGCTGATGCCCAAGGATGCACACACTGGCTGCGTGGG
CTGCCCTCAGAAAGATGTGCCCAGGAGGAAAATTACTCCTGGGCACCAAGTACAATTACAGTGGATCAGAGGATT
GCACTGAAAGAGGTGCAAGCTACCTGGTTACTTCACAAATATCTCTACCATACTACTATTATCGACTCAACATT
AGGGTTGTCTGTGCTCAGGACACCAGAGTAAATACTGCCCCAATTCCAGAGATGTACTCCTTCTACATGTGCCCA
TGCTTCAGGCCTGAGCTCCGTGGCTACTCCATGGACACATCACTTATCAAACACCAGTGCAACCACCCTGCAAG
CAAGCCAACAGGCCAGATTCACTGCCAAGAGAGATTCTGGCAATCTTAGCAGAAGAACTCAACAAAACAAAGCCC
ATCTGGACCAGAAATCCAGATGATATTACTAATGAGGAGTACAGAGAATTCTACAAGAGCTTGACTAATGACTGG
GAAGATCACTTAAAGAAAAAGAACAAATATCAAATTGTATGTATGCAGAGTTTTTCATCACGGATAACTGTGAGGAG
CTAATCCCTGAATACCTGAACTTCATTAGAGTGCTGGTAGACTCGGAGGATCTCCCTCTAAATATTTCCATAAG
ATGTTACAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAA
CTGGCAGAAGATAAAGAGAACTACAAGAAGTTCTATGAGCAGTTCTCTGAAAACATAAAGCTTGGAATACATGAA
GACTCTCAAAATCAGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCT
CTCAAGGACTACTGCACCAGAATAAGGAAAAGTAGAAATGAATCTTAA

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FIGURE 1521

MVTNVNQNTSGALSLNQLPHTHMSKIQIPLANAYPIANADAQGCTHWLRGLPSERCARGGKLLLTSTITVDQRI
ALKEVQATWLLHKYLYHTYYYRLNIRVVCAQDTRVNTAPIPEMYSFYMCPCFRPELRGYSMDTSLIKHQC�HHCK
QANRPDSVPREILAILAEELNKTPIWTRNPDDITNEEYREFYKSLTNDWEDHLKKKNNIKLYVCRVFITDNCEE
LIPEYLNFIIRVLVDSEDLPINISHKMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSENIKLGIHE
DSQNQKKLSELLRYYTSSASGDEMVS�KDYCTRIRKTRNES

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FIGURE 1522

GATGTGGCCCGTGGCCTAGCTCGTCAAGTTGCCGTGGCGCGGAGAACTCTGCAAAACAAGAGGCTGAGGATTGCG
TTAGAGATAAACCAGTTTACGCCGGAGCCCCGTGAGGGAAGCGTCTCCGTTGGGTCCGGCCGCTCTGCGGGGACTC
TGAGGAAAAGCTCGCACCAAGGTGGACGCGGATCTGTCAACATGGGTAAAGGAGACCCCAACAAGCCGCGGGGCAA
AATGTCCTCGTACGCCTTCTTCGTGCAGACCTGCCGGGAAGAGCACAAGAAGAAACACCCGGACTCTTCCGTCAA
TTTCGCGGAATTCTCCAAGAAGTGTTCGGAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTTGAAGA
TATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTACGTTCTCCCAAAGGTGATAAGAAGGG
GAAGAAAAGGACCCCAATGCTCCTAAAAGGCCACCATCTGCCTTCTTCCTGTTTTGCTCTGAACATCGCCCCAA
GATCAAAAGTGAAACACCCTGGCCTATCCATTGGGGATACTGCAAAGAAATTGGGTGAAATGTGGTCTGAGCAGTC
AGCCAAAGATAAACAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATA
TCGTGCCAAGGGCAAAAGTGAAGCAGGAAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAACC
AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAAATAATGGC
TATCCTTTAATGATGCGTGTGGAATGTGTGTGTGTGCTCAGGCAATTATTTTGCTAAGAATGTGAATTCAAGTGC
AGCTCAATACTAGCTTCAGTATAAAAACTGTACAGATTTTGTATAGCTGATAAGATTCTCTGTAGAGAAAATAC
TTTTAAAAATGCAGGTTGTAGCTTTTGTATGGGCTACTCATAAGTTAGATTTTACAGCTTCTGATGTTGAATG
TTCCTAAATATTTAATGGTTTTTTAATTTCTGTGTGTATGGTAGCACAGCAAACCTGTAGGAATTAGTATCAAT
AGTAAATTTTGGGTTTTTTAGGATGTTGCATTTTCGTTTTTTAAAAAAATTTTGTAATAAAATTATGTATATTA
TTTCTATTGTCTTTGTCTTAATATGCTAAGTTAATTTTCACTTTAAAAAAGCCATTTGAAGACCAAAAAAAAAA
AA

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FIGURE 1523

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREM
KNYVPPKGDKKGKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAK
LKEYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNPEDEEEEEEEEEDEEEEEDEEE

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FIGURE 1524

CAGCCCCCTCTGCGGCTGCCGGGCGGGCCCGGGCGCCCGGGGGCTGGGGGGTGGGGGGTGGGGGAGGACGCCGAG
CGCTGAGGCAGGGGCCCCGGGCGGAGGGCGCGGCGGGGCTGCGCGCACGCTGGGGCGCGTGGAGGGGCGCGGAGGG
CGAAATGAGTCTGGTAGGTGGTTTTTCCCCACCACCCGGTGGTGCACCACGAGGGCTACCCGTTTGCCGCCGCCGC
CGCCGCAGCTGCCGCCGCCGCCGAGCCGCTGCAGCCATGAGGAGAACCCCTACTTCCATGGCTGGCTCATCGG
CCACCCCGAGATGTCGCCCCCGACTACAGCATGGCCCTGTCCTACAGCCCCGAGTATGCCAGCGGCGCCGCCGG
CCTGGACCACTCCCATTACGGGGGGGTGCCGCCGGGCGCCGGGCCCCCGGGCCTGGGGGGGCGCGCCCGGTGAA
GCGCCGAGGCACCGCCAACCGCAAGGAGCGGCGCAGGACTCAGAGCATCAACAGCGCCTTCGCCGAAGTGC CGA
GTGCATCCCCAACGTACCCGCCGACACCAAATCTCCAAATCAAGACCCTGCGCCTGGCCACCAGCTACATCGC
CTACCTCATGGACCTGCTGGCCAAGGACGACCAGAATGGCGAGGCGGAGGCCTTCAAGGCAGAGATCAAGAAGAC
CGACGTGAAAGAGGAGAAGAGGAAGAAGGAGCTGAACGAAATCTTGAAAAGCACAGTGAGCAGCAACGACAAGAA
AACCAAAGGCCGGACGGGCTGGCCGCAGCACGTCTGGGCCCTGGAGCTCAAGCAGTGAGGAGGAGGAGAAGGAGG
AGGAGGAGAGCGGAGTGAGCAGGGGCCAAGGCGCCAGATGCAGACCCAGGACTCCGGAAAAGCCGTCCGCGCTC
CGCTCTGAGGACTCCTTGCAATTTGGAATCATCCGGTTTATTTATGTGCAATTCCTTCCCCCTCTCTTTGACCCC
TTTGAGGCATCTGCTCCCCGTCTCCCCCTCAAAAAAAAAAGTGATATTTGAAGAAAAGCATTCCATATTTTAAT
ACGAAGAGGACACTCCCGTGTGCAGGCCGAATCAGACCCGGCGTGGGCGAATTCAGAAGTGCCCAGGGAGAGACA
AGCTAGAGGCTCTGCGGACTTCTGCGGGCGGCTGACAACGCGAGGGCGAGGGGAGAAAGCCATCAGGTCCTAGAC
GTGGAAGAAAGGAGCCTACCAAAGTGTTGGAGTAAAC

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FIGURE 1525

TTCACTATTAAAATATTTTCCCCCAAGTCTCAAATATTGAAGAATCTCTAACCAGAAGGCACAGATCATTTCATG
GGGATGTATAACCGAAACCAGTCCTCTCCACCGCCTGGGGATCTTCACTTTTCGCAGTCTACGACTGCCTGTGACT
CCAGAAAGACAAACTGCAGATTGGCCAAGCTGCCTGAAGACCCAGCCCCGACAGCGATGCCTGTCAGCCCGCGTCG
CCCACCAGGGCAGCTGCTCTCCCAACTCGCATGGGGGGCACCACCCGCTCGGTGCCCTAGAGCTGAGCGCAGC
CGCGGCTCCACGGGGATCGCCAGGGCCTCAGCCCTCGCGGCCGGCGGCGGGAGTGTTCGGGGGCAGGGACCAG
AGCGCGATCAGAGCGGCCACCCCGATTTAGGTGCGCAGCTTTCCAGTCACTGCGATGGCCACTGGGGCGCCCCCT
TCCATCCTGGTTAAATTCTCATTGTGATCCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGTTCTCCG
CCGCTCAGGCTGGGAGAGGTCACCGCTCCGGGCAGGGTGGACCCCCAGCTCCGTCTCGGAGGACCTTTCGCCGGA
GGCGAGCAGGAAGGGGTAAACCATGAGCCTCCACCCCTCACCTCCCAGACCCTGGTGCCGGGGCTAAGGCCTCCGC
TTCCCTCCTGAGGTCTCATTAGGAAACCCTCACCGCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGA
GCTGCACAAACAGATTGGCGGCAAAAGCGTAGATCTTGTACGATTGAGACCAATCCAGTATTTACGCCTTGTTT
GCTTTGCAATTACGGGTGGCTTGTGGCTACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTCTCCTCTGC
GCTCCGGGCGGGTGGAGGAAGCGACCCGCGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGGGGGGAGGCGG
CGGAGGGCGGAGGAGACTCGCTTGACCCCCAGGGC

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FIGURE 1526

GGAGGCAAACAACCCATCTCTCTTGGAGAATCCACACTTCGTTTCTTCTAGGTCCAGCCTAAATGTTACCTCCTC
CAGGGAGCCTTTCCAGATACTGCTTCTCCTCTCTCCCCAACTCCCTCCCACAAATGAAGTTTTCTCTTCTGAAT
TCCTTGCTGGTACTGTCACTTATATTCTTTTGGGTAGATCTCTGGGCATGCATATGTCACCTCCTGTGACTGTGG
GTTTCTTGACAACCTAATCAATGCATTGAACAAAGGAGATGTTTAGACAACCCATATAAAATGAATAAGAGAAAT
AGGGTGAATACCGTCTACCCCAATTGCAATCAGATTAGTTTCTTTATTTTGAAAACGATTAGAACTAGTAGAGG
AGTTAGATGTGGCCCACTAGGGAACAAATTTTCATCTCCAAGCCGTCCTCTGGCTCGATCGGGTCTGCACTGGGT
CTGCATCAACTTGCGCTGGCTCAGAGGGAGGCTCAGCCCCAGCCTGGCCTTCTGGTGCCCACTCCCAACATCCT
GAGCAGGGCCGACTCTAGGCACCCACGATTAGCTGAGTGATCTAGGGCAAGGACCTAGGCGTCTCTAAGTCTTA
GTTTCCCCATCTGAACAATGTGGATAATGACACGTACCTGGGGTGGGCAGGCTAGAGTAAATGGGAAAATCAAAG
CGCCAGCCAGAGCGGGTCGCACTGTTAGTTCTGTATTTTCTCCTCCTGCCTCTGGTTTCTTCCGTTCCGTTCTA
GCTGCCTGAAGACCCAGCCCGACAGCGATGCCTGTAGCCCGCGTCGCCCACCAGGGCAGCTGCTCTCCCAACTC
GCATGGGGGGCACCACCCCGCCTCGGTGCCCTAGAGCTGAGCGCAGCCGCGGCTCCACGGGGATCGCCAGGGCCT
CAGCCCTCGCGGCGCGGCGCGGGAGTGTTGCGGGGCAGGGACCAGAGCGCGATCAGAGCGGCCACCCCGATT
TAGGTGCGCCAGCTTTCAGTCACTGCGATGGCCACTGGGGCGCCCCCTTCCATCCTGGTTAAATTCTCATTGTGAT
CCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCGGTTCTCCGCGCTCAGGCTGGGAGAGGTCACCGCTC
CGGGCAGGGTGGACCCCCAGCTCCGTCTCGGAGGACCTTTCGCCGGAGGCGAGCAGGAAGGGGTTAACCATGAGC
CTCCACCCCTCACCTCCCAGACCCTGGTGCCGGGCTAAGGCCTCCGCTTCCCTCCTGAGGTCTCATTAGGAAACC
CTCACCGCTATTTTCAACATTTCTCAATCAAGTGCTTTAAATAGAGCTGCACAAACAGATTGGCGGCAAAAGC
GTAGATCTTGTCACGATTGAGACCAATCCAGTATTTAGCCTTGTTTGCTTTGCAATTACGGGTTGGCTTGTTGGC
TACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTTCTCCTCTGCGCTCCGGGCGGGTGGAGGAAGCGACCCG
CGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGCGGGGGAGGCGGCGGAGGGCGGAGGAGACTCGCTTGCAAC
CCAGGGCCGCGGGCACGCAGAGCTGTGTTGAAGGACATACTTTTTCAGGTTCTTGACAGTCACTGAGCTATACGCA
ATAATAAAGTGCGTGATTGCGGTGTGGAAACAGTGTCGTGTCCTTACCGGCTTCCTTTTCTGTCCACCTTCCCT
CTCTCTTCTACCTCCGTCTCGCTTTTCTTTCAGTGATGTTAGCGGTTTGCTGGATTTCCTTCTCCCTCGCTGTT
CAACTGCTAGCATGATTTGTTACATTTTCCACAGCTGTTTATTCTTGTTGACTTTTTGTACAAAGTCACTTTAA
ATCTGCTGCAGAAAGAATAAAGCACCTAGCCCTTTGGATGGACTCCTGCAGGCGTGTGGCTGTCCCTGGCCCACT
TTTAATTCTTTGGAGATGGCTCTTCTGTGTAAATCAGCTGCTGGGTGCGTTCGGTCACCTCGTAGGCCAGCCTAG
TTTGTATCAGCAGAACAGTAGTGGACTCGACTCAGGTCGTAAGCCTTATATTTACAGACAATTAAATCTTGGCT
GCTGTTGAACAAAACCTGTAATATTTACTTTGTTCTATACCGAGAAGCACTTTTAAAGT

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FIGURE 1527

MWIMTRTWGGQARVNGKIKAPARAGRTVSSCIFSSCLWFLPFRSSCLKTQPDSDACQFASPTRAAALPTRMGTT
PPRCpraersrgstgiarasalaaggagvlrgrdqsairaATPDLGRQLSSHCDGHWGAPSILVKFSL

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FIGURE 1528

GAAGGAGGAGGTGGCAAATCACTTATAAATGGTGCTGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCG
AGTGCTGTGGTTTCATGGGCCTCTGCTTTATGATGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAAAAGTGAAA
TACTTTATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATATGTG
GACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGATGG
GCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATATTGAAGTGAAAACAAAAAGAACAACAGAAA
ACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACTCCCCAGCCTCCTCGAAAGAAAAGGGCCAGGTAGAT
CCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCTGAAGAGCTAAACCA
TGGCTTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTCTATCTTCCTGCCGAGAAGAATGTGGAT
TCCATTCTTGAGGACTATGCAAATTACAAGAAATCTCATGGAAACACAGATAATAAGGAGTATGCAGTTAATGAA
GTTGTGGCAGGGATAAAAGAATACTTCAACCTAATGTTGGGCACCCAGCTACTCAACAAATTTGAGAGACCACAG
TATGCCGAAATTCTTGCAGATTGTCCCGATGCACCCATGTCCCAGGTGTATGGAGTGCCACATCTCCTGAGATTA
TCTGTACAAATTGGAGCAATGTTGGCCTATACACCTCTGAATGAGAAGAGCCTTGCTTTATTACTCAATTATCTT
CACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGATTATGAAGTGGCTCTTCCT
GAGTACCATCGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATGTCTGGATCTCCATAAACACATTTTTGTTC
TTAGTCTATCTCTTGTACAAACGATGTGCTTTGAAGATGTTAGTGTATAACAATTGATGTTTGTCTTCTGTTTGA
TTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTCTCTTTTTTTTTTTTTTTTTTTCATTTCAAAGTTGCTG
CCAGTGTTTTCAATGATGGACAACACAGGGATATGCTGTAGAGTGTTTTATTGCCTAGTTGACAAAGCTGCTTTT
GAATGCTGGTGGTTCTATTCTTTAACACTATGCATTTTTATAATACGTGTTAATGCTACATGACAAAATGCTCT
GATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAATACACTCATCCATTTGTGCTCCTTTTTTTTTTT
AATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCATGTTGCTACTTAGGCATTTTATCTTGGCTCAA
ATTGTTGAAGAATGGCTTGTTTCACAGTTTTTGTATTTGTGTCTAATGCACGTTTTAACATGATAGATGCAATGC
ATTGTGTAGCTACTTTTCTGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGATCTTCATTAAATTTTTTCTTA
AATTC

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FIGURE 1529

MRWAAPGKKTSGLOQKNIEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRAQVDPTVENEETFMNRVEVKVKIPEE
LKPWLVDWDLITRQQLFYLPAEKNVDSILEDYANYKKSHGNTDNKEYAVNEVVAGIKEYFNLMLGTQLLNKFE
RPQYAEILADCPDAPMSQVYGVPHELLRLSVQIGAMLAYTFLNEKSLALLLNHLHDFLKYLAKN SATLFSASDYEV
ALPEYHRKAV

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FIGURE 1530A

CTGGGCGGCCGGGCGCGGGGAGAGGGCGCGGGAGCGGCTCGTGCGGCAGGTACCATGCGGACGCGCGAGCCCCGGC
GAGGGCCCCGGCAGGCCCCGCTCCCTGCTCGGGGGCGCGCTGAGACGGCGGGTGAGCTCCACGAGAGCGCCGTCGC
CACTTCGGGGCCAACATTTGCGATTCCCCGACAGTTAAGCAATGGGGAGACATTTGGCTTTGCTCCTGCTTCTGCTCC
TTCTCTTCCAACATTTTGGAGACAGTGATGGCAGCCAACGACTTGAACAGACTCCTCTGCAGTTTACACACCTCG
AGTACAACGTCACCGTGCAGGAGAACTCTGCAGCTAAGACTTATGTGGGGCATCCTGTCAAGATGGGTGTTTACA
TTACACATCCAGCGTGGGAAGTAAGGTACAAAATTGTTTCCGGAGACAGTGAAAACCTGTTCAAAGCTGAAGAGT
ACATTCTCGGAGACTTTTGCTTTCTAAGAATAAGGACCAAGGAGGAAATACAGCTATTCTTAATAGAGAAGTGA
AGGATCACTACACATTGATAGTGAAAGCACTTGAAAAAATACTAATGTGGAGGCGCGAACAAGGTCAGGGTGC
AGGTGCTGGATACAAATGACTTGAGACCGTTATTCTCACCACCTCATACAGCGTTTCTTTACCTGAAAAACACAG
CTATAAGGACCAGTATCGCAAGAGTCAGCGCCACGGATGCAGACATAGGAACCAACGGGGAATTTTACTACAGTT
TTAAAGATCGAACAGATATGTTTGCTATTACCCCAACCAGTGGTGTGATAGTGTTAACTGGTAGACTTGATTACC
TAGAGACCAAGCTCTATGAGATGGAATCCTCGCTGCGGACCGTGGCATGAAGTTGTATGGGAGCAGTGGCATCA
GCAGCATGGCCAAGCTAACGGTGCACATCGAACAGGCCAATGAATGTGCTCCGGTGATAACAGCAGTGACATTGT
CACCATCAGAAGTGGACAGGGACCCAGCATATGCAATTGTGACAGTGGATGACTGCGATCAGGGTGCCAATGGTG
ACATAGCATCTTTAAGCATCGTGGCAGGTGACCTTCTCCAGCAGTTTAGAACAGTGAGGTCCTTTCCAGGGAGTA
AGGAGTATAAAGTCAAAGCCATCGGTGGCATTGATTGGGACAGTCATCCTTTCCGGCTACAATCTCACACTACAGG
CTAAAGATAAAGGAAGTCCGCCCCAGTTCTCTTCTGTTAAAGTCATTACAGTACTTCTCCACAGTTCAAAGCCG
GGCCAGTCAAGTTTGAAAAGGATGTTTACAGAGCAGAAATAAGTGAATTTGCTCCTCCCAACACACCTGTGGTCA
TGGTAAAGGCCATTCTGCTTATTCCCATTTGAGGTATGTTTTTAAAGTACACCTGGAAAAGCTAAATTCAGTT
TAAATTACAACACTGGTCTCATTCTATTTTAGAACCAGTTAAAGACAGCAGGCAGCCATTTTGAAGTTGAAG
TAACAACAAGTGACAGAAAAGCGTCCACCAAGGTCTTGGTGAAAGTCTTAGGTGCAATAGCAATCCCCCTGAAT
TTACCCAGACAGCGTACAAAGCTGCTTTTGATGAGAAGCTGCCATTGGTACTACTGTGATGAGCCTGAGTGCCG
TAGACCCTGATGAGGGTGAGAACGGGTACGTGACATACAGTATCGCAAATTTAAATCATGTGCCGTTTGCGATTG
ACCATTTCACTGGTGCCGTGAGTACGTGAGAAAACCTGGACTACGAACTGATGCCTCGGGTTTATACTCTGAGGA
TTCGTGCATCAGACTGGGGCTTGCCGTACCGCCGGGAAGTCGAAGTCCTTGCTACAATTACTCTCAATAACTTGA
ATGACAACACACCTTTGTTTGAGAAAATAAATTGTGAAGGGACAATTCCCAGAGATCTAGGCGTGGGAGAGCAAA
TAACCACTGTTTCTGCTATTGATGCAGATGAACCTTCAGTTGGTACAGTATCAGATTGAAGCTGGAAATGAAGTGG
ATTTCTTTAGTTTAAACCCCAACTCGGGGGTATTGTCATTAAAGCGATCGCTAATGGATGGCTTAGGTGCAAAGG
TGTCTTTCCACAGTCTGAGAATCACAGCTACAGATGGAGAAAATTTGCCACACCATTATATATCAACATAACAG
TGGCTGCCAGTCACAAGCTGGTAAACTTGCAGTGTGAAGAGACTGGTGTGCCAAAATGCTGGCAGAGAAGCTCC
TGCAGGCAATAAATTACACAACCAGGGAGAGGTGGAGGATATTTCTTCGATTCTCACTCTGTCAATGCTCACA
TACCGCAGTTTAGAAGCACTCTTCCGACTGGTATTCAGGTAAAGGAAAACCAGCCTGTGGGTTCAGTGTAATTT
TCATGAAGTCCACTGACCTTGACACTGGCTTCAATGGAAGTGGTCTATGCTGTTTCTGGAGGAAATGAGGATA
GTTGCTTCATGATTGATATGGAACAGGAATGCTGAAAATTTTATCTCCTCTTGACCGTGAAACAACAGACAAAT
ACACCCTGAATATTACCGTCTATGACCTTGGGATACCCAGAAAGGCTGCGTGCGCTCTTCTACATGTGCTGGTTG
TCGATGCCAATGATAATCCACCCGAGTTTTTACAGGAGAGCTATTTTGTGGAAGTGAGTGAAGACAAGGAGGTAC
ATAGTGAAATCATCCAGGTTGAAGCCACAGATAAAGACCTGGGGCCCAACGGACACGTGACGTACTCAATTGTTA
CAGACACAGACACATTTTCAATTGACAGCGTGACGGGTGTTGTTAACATCGCACGCCCTCTGGATCGAGAGCTGC
AGCATGAGCACTCCTTAAAGATTGAGGCCAGGGACCAAGCCAGAGAAGAGCCTCAGCTGTTCTCCACTGTGCTTG
TGAAAGTATCACTAGAAGATGTTAATGACAACCCACCTACATTTATTCCACCTAATTATCGTGTGAAAGTCCGAG
AGGATCTTCCAGAAGGAACCGTCATCATGTGGTTAGAAGCCCCACGATCCTGATTTAGGTGAGTCTGGTCAGGTGA
GATACAGCCTTCTGGACCACGGAGAAGGAACTTCGATGTGGATAAACTCAGTGGAGCAGTTAGGATCGTCCAGC
AGTTGGACTTTGAGAAGAAGCAAGTGATAATCTCACTGTGAGGGCCAAAGACAAGGGAAAGCCAGTTTCTCTGT
CTTCTACTTGCTATGTTGAAGTTGAGGTGGTTGATGTGAATGAGAACCCTGCACCCACCCGTGTTTTCCAGCTTTG
TGGAAAAGGGGACAGTGAAAGAAGATGCACCTGTTGGTTTATTGTTAATGACGGTGTGCGCTCATGATGAGGACG
CCAGAAGAGATGGGGAGATCCGATACTCCATTAGAGATGGCTCTGGCGTTGGTGTTCAAAATAGGTGAAGAGA
CAGGTGTCATAGAGACGTGAGTGCAGTGGACCGTGAATCGACCTCCCATTTATGGCTAACAGTCTTTGCAACCG
ATCAGGGTGTGCTGCTCTTTTATCGTTTATAGAGATCTACATAGAGGTTGAGGATGTCAATGACAATGCACCAC

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FIGURE 1530B

AGACATCAGAGCCTGTTTATTACCCAGAAATCATGGAAAATTCTCCTAAAGATGTATCTGTGGTCCAGATCGAGG
CATTGTGATCCAGATTTCGAGCTCTAATGACAAGCTCATGTACAAAATTACAAGTGGAAATCCACAAGGATTCTTTT
CAATACATCCTAAACAGGTCTCATCACAACCTACGTCAAGGAAGCTAGACCGAGAACAGCAAGATGAACACATAT
TAGAGGTTACTGTGACAGACAATGGTAGTCCCCCAAATCAACCATTGCAAGAGTCATTGTGAAAATCCTTGATG
AAAATGACAACAAACCTCAGTTTCTGCAAAAGTTCTACAAAATCAGACTCCCTGAGCGGGAAAAGCCAGACCGAG
AAAGAAATGCCAGACGGGAGCCGCTCTATCACGTCATAGCCACCGACAAGGATGAGGGCCCCAATGCAGAAATCT
CCTACAGCATCGAAGACGGGAATGAGCATGGCAAATTTTTCATCGAACCAGAAAATGAGAGTGGTTTTCGTCCAAGA
GGTTTTTCAGCAGCTGGAGAATATGATATTCTTTCAATTAAGGCAGTTGACAATGGTCGCCCTCAAAAGTCATCAA
CCACCAGACTCCATATTGAATGGATCTCCAAGCCCAAACCGTCCCTGGAGCCCATTTCATTTGAAGAATCATTTT
TTACCTTTACTGTGATGGAAAGTGACCCCGTTGCTCACATGATTGGAGTAATATCTGTGGAGCCTCCTGGCATA
CCCTTTGGTTTGACATCACTGGTGGCAACTACGACAGTCACCTCGATGTGGACAAGGGAAGTGAACCATCATTG
TTGCCAAACCTCTTGATGCAGAACAGAAGTCAAACCTACAACCTCACAGTCGAGGCTACAGATGGAACCACTA
TCTTCACTCAGGTATTCATCAAAGTAATAGACACAAATGACCATCGTCCTCAGTTTTCTACATCAAAGTATGAAG
TTGTTATTCTGAAGATACAGCGCCAGAAACAGAAATTTTGCAAATCAGTGCTGTGGATCAGGATGAGAAAAACA
AACTAATCTACACTCTGCAGAGCAGTAGAGATCCACTGAGTCTCAAGAAATTTCTGTCTTGATCCTGCAACCGGCT
CTCTCTATACTTCTGAGAACTGGATCATGAAGCTGTTTACCAGCACACCCCTCACGGTCATGGTACGAGATCAAG
ATGTGCCTGTAAAACGCAACTTTGCAAGGATTGTGGTCAATGTGAGCGACACGAATGACCACGCCCCGTGGTTCA
CCGCTTCCTCTACAAAGGGCGGGTTTATGAATCGGCAGCCGTTGGCTCAGTTGTGTTGCAGGTGACGGCTCTGG
ACAAGGACAAAGGGAAAAATGCTGAAGTGCTGTAAGTCTGATCGAGTCAGXXXXXXXGAAATATTGGAAATCTT
TTATGATTGATCCTGTCTTGGGCTCTATTAAGTCCAAAGAATTAGATCGAAGTAACCAAGCGGAGTATGATT
TAATGGTAAAAGCTACAGATAAGGGCAGTCCACCAATGAGTGAATAAATCTGTGCGTATCTTTGTCACAATTG
CTGACAACGCCTCTCCGAAGTTTACATCAAAAGAATATTCTGTTGAACCTAGTGAAACTGTCAGCATTGGGAGTT
TCGTTGGGATGGTTACAGCCCATAGTCAATCATCAGTGGTGTATGAAATAAAAGATGGAATAACAGGTGATGCTT
TTGATATTAATCCACATTCTGGAACCTATCATCACTCAGAAAGCCCTGGACTTTGAAACTTTGCCCATTTACACAT
TGATAATACAAGGAATAACATGGCTGGTTTGTCCACTAATACAACGGTTCTAGTTCACTTGACAGGATGAGAATG
ACAACGCGCCAGTTTTTATGCAGGCAGAAATATACAGGACTCATTAGTGAATCAGCCTCAATTAACAGCGTGGTCC
TAACAGACAGGAATGTCCCACTGGTGATTTCGAGCAGCTGATGCTGATAAAGACTCAAATGCTTTGCTTGTATATC
ACATTGTTGAACCATCTGTACACACATATTTTGCTATTGATTCTAGCACTGGTGCTATTTCATACAGTACTAAGTC
TGGACTATGAAGAAACAAGTATTTTCACTTTACCGTCCAAGTGCATGACATGGGAACCCACGTTTATTTGCTG
AGTATGCAGCGAATGTAACAGTACATGTAATTGACATTAATGACTGCCCCCTGTGTTTGCCAAGCCATTATATG
AAGCATCTCTTTTGTACCAACATACAAAGGAGTAAAGTCATCACAGTAAATGCTACAGATGCTGATTCAAGTG
CATTCTCACAGTTGATTTACTCCATCACCGAAGGCAACATCGGGGAGAAGTTTTCTATGGACTACAAGACTGGTG
CTCTCACTGTCCAAACACAACCTCAGTTAAGAAGCCGCTACGAGCTAACCGTTAGAGCTTCCGATGGCAGATTTG
CCGGCCTTACCTCTGTCAAAATTAATGTGAAAGAAAGCAAAGAAAGTCACCTAAAGTTTACCCAGGATGTCTACT
CTGCGGTAGTGAAAGAGAATTCCACCGAGGCCGAAACATTAGCTGTCACTTACTGCTATTGGGAATCCAATCAATG
AGCCTTTGTTTTATCACATCCTCAACCCAGATCGCAGATTTAAAAATAAGCCGCACTTCAGGAGTTCTGTCAACCA
CTGGCAGGCCCTTCGATCGTGAGCAGCAGGAGGCGTTTGATGTGGTTGTAGAAGTGACAGAGGAACATAAGCCTT
CTGCAGTGGCCACGTTGTCTGTAAGGTCAATTGTAGAAGACCAAAATGATAATGCGCCGGTGTGTTGTCACCTTC
CCTACTACGCCGTTGTTAAAGTGGACACTGAGGTGGGCCATGTCATTGCTATGTCACTGCTGTAGACAGAGACA
GTGGCAGAAACGGGGAAGTGCATTACTACCTCAAGGAACATCATGAACACTTTCAAATTGGACCCTTGGGTGAAA
TTTCACTGAAAAAGCAATTTGAGCTTGACACCTTAAATAAAGAATATCTTGTACAGTGGTTGCAAAAGATGGAG
GGAACCCGGCCTTTTTCAGCGGAAGTTATCGTTCCGATCACTGTGATGAATAAAGCCATGCCTGTGTTTAAAAAC
CTTTCTACAGTGCAGAGATTGCAGAGAGCATCCAGGTGCACAGCCCTGTGGTCCACGTGCAGGCTAACAGCCCGG
AAGGCCTGAAAGTGTCTACAGCATCACAGACGGAGACCCCTTTCAGCCAGTTCACTATTAACCTCAATACTGGAG
TTATCAATGTCATAGCTCCTCTGGACTTTGAGGCCCCCGGCATATAAGCTGAGCATACGCGCAACTGACTCCT
TGACGGGCGCTCATGCTGAAGTATTTGTGGACATCATAGTAGACGACATCAATGATAACCCCTCTGTGTTGCTC
AGCAGTCTTATGCGGTGACCTGTCTGAGGCATCTGTAATTGGAACGTCTGTTGTTCAAGTTAGAGCCACCGATT
CTGATTGAGAACCAATAGAGGAATCTCATACCAGATGTTTGGGAATCACAGCAAGAGTCATGATCATTTTCATG

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FIGURE 1530C

TAGACAGCAGCACTGGCCTCATCTCACTACTCAGAACCCTGGATTACGAGCAGTCCCGGCAGCACACGATTTTTG
TGAGGGCAGTTGATGGTGGTATGCCCACGCTGAGCAGTGATGTGATTGTCACGGTGGACGTTACCGACCTCAATG
ATAATCCACCACTCTTTGAACAACAGATTTATGAAGCCAGAATTAGCGAGCAGCCCCCTCATGGGCATTTCTGTGA
CCTGTGTAAAGCCTATGATGCAGACAGTTCAGACATAGACAAGTTGCAGTATTCCATTCTGTCTGGCAATGATC
ATAAACATTTTGTCAATTGACAGTGCAACAGGGATTATCACCCCTCTCAAACCTGCACCGGCACGCCCTGAAGCCAT
TTTACAGTCTTAACCTGTCAGTGTCTGATGGAGTTTTTAGAAGTTCCACCCAGGTTTCATGTAAGTGTAAATGGAG
GCAATTTGCACAGTCCTGCTTTTCTTCAGAACGAATATGAAGTGGAACTAGCTGAAAACGCTCCCCCTACATACCC
TGGTGATGGAGGTGAAAACCTACGGATGGGGATTCTGGTATTTATGGTCACGTTACTTACCATATTGTAAATGACT
TTGCCAAAGACAGATTTTACATAAATGAGAGAGGACAGATATTTACTTTTGAAAACTTGATCGAGAAAACCCCGG
CGGAGAAAAGTGATCTCAGTCCGTTTAAATGGCTAAGGATGCTGGAGGAAAAGTTGCTTTCTGCACCGTGAATGTCA
TCCTTACAGATGACAATGACAATGCACCACAATTTTCAGCAACCAATACGAAGTGAATATCGGGTCCAGTGCTG
CTAAAGGGACTTCAGTCGTTAAAGTTCTTGCAAGTGATGCCGATGAGGGCTCCAATGCCGACATCACCTATGCCA
TTGAAGCAGACTCTGAAAGTGAAAAGAGAATTTGGAAAATTAACAAACTGTCCGGCGTAATCACTACAAAGGAGA
GCCTCATTGGCTTGAAAATGAATTCCTTCACTTTCTTTGTTAGAGCTGTGGATAATGGGTCTCCATCAAAAGAAT
CTGTTGTTCTTGTCTATGTTAAATCCTTCCACCGGAAATGCAGCTTCCAAAATTTTCAGAACCTTTCTATACCT
TTACAGTGTGAGAGGACGTGCCTATTGGAACAGAGATAGATCTCATCCGAGCAGAACATAGTGGGACTGTTCTTT
ACAGCCTGGTCAAAGGGAATACTCCAGAAAGCAATAGGGATGAGTCCTTTGTGATTGACAGACAGAGCGGGAGAC
TGAAGTTGGAGAAGAGTCTTGATCATGAGACAATAAGTGGTATCAGTTTTCCATACTGGCCAGGTGCACTCAAG
ATGACCATGAGATGGTGGCTTCTGTAGATGTTAGTATCCAAGTGAAAGATGCAATGACAACAGCCCGGTCTTTG
AATCTAGTCCATATGAGGCATTCATTGTTGAAAACCTGCCAGGGGGAAGTAGAGTAATTCAGATCAGGGCATCTG
ATGCTGACTCAGGAACCAACGGCCAAGTTATGTATAGCCTGGATCAGTCACAAAGTGTGGAAGTCATTGAATCCT
TTGCCATTAACATGGAACAGGCTGGATTACAACCTTTAAAGGAACCTTGACCATGAAAAGAGAGACACTTACCAGA
TTAAAGTGGTTGCATCAGATCATGGTGAAAAGATCCAGCTATCCTCCACAGCCATTGTGGATGTTACCGTCACCG
ATGTCAACGATAGTCCACCAGATTACCGCCGAGATCTATAAAGGGACTGTGAGTGAGGATGACCCCCCTAGGTG
GGGTGATTGCCATCTTAAGTACCACGGATGCTGATTCTGAAGAGATCAACAGACAAGTTACATATTTTCATAACAG
GAGGGGATCCTTTAGGACAGTTTGCTGTTGAAACTATACAGAATGAATGGAAGGTATATGTGAAGAAACCTCTAG
ACAGGGAAAAAAGGGACAATTACCTTCTTACTATCACGGCAACTGATGGCACCTTCTCATCAAAAGCGATAGTTG
AAGTGAAAGTTCTGGATGCAAATGACAACAGTCCAGTTTGTGAAAAGACTTTATATTCAGACACTATTCCTGAAG
ACGTCCTTCTCGAAAAATTGATCATGCAGATCTCTGCTACAGACGCAGACATCCGCTCTAACGCTGAAATTACTT
ACACGTTATTGGGTTTCAGGTGCAGAAAAATTCAAATAAATCCAGACACAGGTGAACTGAAAACGTCAACCCCCC
TTGATCGTGAGGAGCAAGCTGTTTATCATCTTCTCGTCAGGGCCACAGATGGAGGAGGAAGATTCTGCCAAGCCA
GTATTGTGCTCAGCTAGAAGATGTGAACGATAACGCCCCGAATTCTCTGCCGATCCTTATGCCATCACCGTGT
TTGAAAACACAGAGCCGGGAACGCTGCTGACAAGAGTGCAGGCCACAGATGCCGACGCAGGATTAAATCGGAAGA
TTTTATACTCACTGATTGACTCTGCTGATGGGCAGTTCTCCATTAACGAATTATCTGGAATTATTCAGTTAGAAA
AACCTTTGGACAGAGAACTCCAGGCAGTATACACCTCTCTTTGAAAGCTGTGGATCAAGGCTTGCCAAGGAGGC
TGACTGCCACTGGCACTGTGATTGTATCAGTTCTTGACATAAATGACAACCCCCCTGTGTTTGTAGTACCGTGAAT
ATGGTGCCACCGTGTCTGAGGACATTCTTGTGGAAGTGAAGTTCTTCAAGTGTATGCAGCAAGTCGGGATATTG
AAGCAAATGCAGAAATCACCTACTCAATAAAGTGGAAATGAACATGGGAAATTTCAGCATAGATTCTAAAACAG
GGGCCGTATTTATCATTGAGAATCTGGATTATGAGAGCTCTCATGAGTATTACCTAACAGTAGAGGCCACTGATG
GAGGCACGCCTTCACTGAGCGACGTTGCCACTGTGAACGTTAATGTAACAGATATCAACGATAATACCCCTGTGT
TCAGCCAAGACACCTACACGACAGTCATCAGTGAAGATGCCGTTCTTGAGCAGTCTGTATCACGGTTATGGCCG
ATGATGCCGATGGACCTTCCAACAGCCACATCCACTACTCAATTATAGATGGCAACCAAGGAAGCTCGTTTACAA
TTGACCCCGTCAGGGGAGAAGTCAAAGTGACCAAACCTTCTCGACCGAGAAACGATTTTCAGGTTACACGCTCACGG
TTCAAGCTTCTGATAATGGCAGTCCACCCAGAGTCAACACGACGACCGTGAACATCGATGTGTCCGATGTCAATG
ACAACGCGCCCGTCTTCTCCAGGGGAACTACAGTGTCTATATCCAGGAAAATAAGCCAGTGGGCTTCAGCGTGC
TGCAGCTGGTAGTAACAGATGAGGATTCTTCCATAACGGTCCACCCCTTCTTCTTTACTATTGTAAGTGGAAATG
ATGAGAAGGCTTTTGAAGTTAACCCGCAAGGAGTCTCTGACATCATCTGCCATCAAGAGGAAGGAGAAAGATC
ATTACTTACTGCAGGTGAAGGTGGCAGATAATGGAAAGCCTCAGTTGTCTATCTTTGACATACATTGACATTAGGG

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FIGURE 1530D

TAATTGAGGAGAGCATCTATCCGCCTGCGATTTTGGCCCTGGAGATTTTCATCACCTCTTCTGGAGAAGAATACT
CAGGTGGCGTCATTGGGAAGATCCATGCCACAGACCAGGACGTGTATGATACTCTAACCTACAGTCTCGACCCTC
AGATGGACAACCTGTTCTCTGTTTCCAGCACAGGGGGCAAGCTGATAGCACACAAAAAGCTAGACATAGGGCAAT
ACCTTCTCAATGTCAGCGTAACAGATGGGAAGTTTCACGACGGTGGCCGACATCACAGTGCATATCAGACAAGTCA
CACAGGAGATGTTGAACCACACCATCGCGATCCGCTTTGCCAACCTCACTCCGGAAGAATTGCTTGGTGAATACT
GGCGCAACTTCCAGCGAGCTTTACGGAACATCCTGGGTGTGAGGAGGAACGACATACAGATTGTTAGTTTGCAGT
CCTCTGAACCTCACCCACATCTGGACGTCTTACTTTTTGTAGAGAAACCAGGTAGTGCTCAGATCTCAACAAAAC
AACTTCTGCACAAGATTAACTCTTCCGTGACTGACATTGAGGAAATCATTGGAGTTAGGATACTGAATGTATTCC
AGAACTCTGCGCGGGACTGGACTGCCCCGGAAGTTCTGCGATGAAAAGGTGTCTGTGGATGAAAGTGTGATGT
CAACACACAGCACAGCCAGACTGAGTTTTGTGACTCCCCGCCACCACAGGGCAGCGGTGTGTCTCTGCAAAGAGG
GAAGGTGCCACCTGTCCACCATGGCTGTGAAGATGATCCGTGCCCTGAGGGATCCGAATGTGTGTCTGATCCCT
GGGAGGAGAAACACACCTGTGTCTGTCCCAGCGGCAGGTTTGGTCAGTGCCAGGGAGTTTCATCTATGACACTGA
CTGGAAACAGCTACGTGAAATACCGTCTGACGGAATAATGAAAACAAATTAGAGATGAACTGACCATGAGGCTCA
GAACATATTCCACGCATGCGGTTGTCTATGTATGCTCGAGGAACCTGACTATAGCATCTTGGAGATTCATCATGGAA
GGCTGCAGTACAAGTTTGAAGTGTGGAAGTGGCCCTGGAATTGTCTCTGTTTCAGAGCATTTCAGGTCAATGATGGGC
AGTGGCACGCAGTGGCCCTGGAAGTGAATGGAACCTATGCTCGCTTGGTTCTAGACCAAGTTTCATACTGCATCGG
GCACAGCCCCAGGGACTCTGAAAACCTGAACTGGATAACTATGTGTTTTTGGTGGCCACATCCGTCAGCAGG
GAACAAGGCATGGAAGAAGTCTCAAGTTGGTAATGGTTTCAGGGGTTGTATGGACTCCATTTATTTGAATGGGC
AGGAGCTCCCTTTAAACAGCAAACCCAGAAAGCTATGCACACATCGAAGAGTCGGTGGATGTATCTCCAGGCTGCT
TCCTGACGGCCACGGAAGACTGCGCCAGCAACCCTTGCCAGAATGGAGGCGTTTGCAATCCGTCACCTGCTGGAG
GTTATTACTGCAAATGCAGTGCCTTGTACATAGGGACCCACTGTGAGATAAGCGTCAATCCGTGTTCTCTCCAAGC
CATGCCTCTATGGGGGCACGTGTGTTGTGTCGACAACGGAGGCTTTGTTTGGCAGTGTAGAGGATTATATACTGGTC
AGAGGTGTCAGCTTAGTCCATACTGCAAAGATGAACCTGTAAAGATGGCGGAACATGCTTTGACAGTTTGGATG
GCGCCGTTTGTGAGTGTGATTGCGGTTTATAGGGGAGAAAGGTGTCAGAGTGATATCGACGAGTGTCTGGAACCC
CTTGCCCTGCACGGGGCCCTCTGTGAGAACACGCACGGCTCCTATCACTGCAACTGCAGCCACGAGTACAGGGGAC
GTCAGTGCAGGATGCTGCGCCCAACAGTATGTGTCCACGCCGTGGAACATTGGGTGGCGGAAGGAATTGGAA
TCGTTGTGTTTGTGAGGATATTTTTACTGGTGGTGGTGTGTTGTTCTCTGCCGTAAGATGATTAGTCGGAAAA
AGAAGCATCAGGCTGAACCTAAAGACAAGCACTGGGACCCGCTACGGCTTTCTTGCAAAGACCGTATTTTGATT
CCAAGCTAAATAAGAACATTTACTCAGACATACCACCCAGGTGCTGTCCGGCCTATTTCTACACCCCGAGTA
TTCCAAGTGACTCAAGAAACAATCTGGACCGAAATTCCTTCGAAGGATCTGCTATCCCAGAGCATCCCGAATTCA
GCATTTTTAACCCGAGTCTGTGACGGGCACCGAAAAGCAGTGGCGGTCTGCAGCGTGGCGCCAAACCTGCCTC
CCCCACCCCTTCAAACCTCCCTTCTGACAGCGACTCCATCCAGAAGCCTAGCTGGGACTTTGACTATGACACAA
AAGTGGTGGATCTTGATCCCTGTCTTTCCAAGAAGCCTCTAGAGGAAAAGCCTTCCCAGCCATACAGTGCCCCGG
AAAGCCTGTCTGAAGTGCAGTCTCTGAGCTCCTTCCAGTCCGAATCGTGCGATGACAATGGGTATCACTGGGATA
CATCAGATTGGATGCCAAGCGTTCTCTGCCGGACATACAAGAGTTCCCCAACTATGAGGTGATTGATGAGCAGA
CACCCCTGTACTCAGCAGATCCAAACGCCATCGATACGGACTATTACCCTGGAGGCTACGACATCGAAAGTGATT
TTCCTCCACCCCAAGAGACTTCCCCGCGAGCTGATGAGCTACCACCGTTACCGCCCGAATTACAGCAATCAGTTTG
AATCCATCCACCCTCCTAGAGACATGCCTGCCGCGGGTAGCTTGGGTTCTTCATCAAGAAACCGGCAGAGGTTCA
ACTTGAATCAGTATTTGCCCAATTTTATCCCTCGATATGTCTGAACCTCAAACAAAAGGCACTGGTGAGAATA
GTACTTGTAGAGAACCCATGCCCCTTACCCGCCAGGGTATCAAAGACACTTCGAGGCGCCCGCTGTGAGAGCA
TGCCCATGTCTGTGTACGCCTCCACCGCTCCTGCTCTGACGTGTGAGCCTGCTGCGAAGTGGAGTCCGAGGTCA
TGATGAGTGACTATGAGAGCGGGGACGACGGCCACTTCGAAGAGGTGACGATCCCGCCCTGGATTCCAGCAGC
ACACGGAAGTCTGACTCTCAACTCCCCCAAGTGCTGACTTTAGTGAACCTAGAGGTGATGTGAGTAATCCGC
GCTGTTCTTTGACGAGTGTCTTCAAGCTTTTTTGGTGAGCCGAATGGGCATGGCTGCGCTGGATCCTGCGCCT
CTGGACGTGCTAGCCATTTCCAGTGTCCCAACTACTGTCTATCGTGAGGTTTTTCATCGGCTGTGCCATTTCCCAAC
GTCTTTTGGGATTTACATCTGTCTGTGTTAAATAATCAAACGAAAATCAGTCTGTGTTGTGAGCATGATTCA
TGTATTTATATAGATTTGATTATTTTAATTTTCTGTCTCTTTTTTTGTAAATTTTATGTACAGATTTGATTTT
TCATAGTTTTAACTAGATTTCCAAGATATTTGTGCATTTGTTTCACTGAATTTTGGTGGTGTGAGTCCATTA

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FIGURE 1530E

TCTAGCACCTGATTTTTTTTTTTTTACTATAACCAGGGTTTCATTCTGTCTTTTTCCACTGAAGTGTGACATT
TGTTAGTACATTCAGTGTAGTCATTCATTTCTAGCTGTACATAGGATGAAGGAGAGATCAGATACATGAACATG
TCTTACATGGGTTGCTGTATTTAGAATTATAAACATTTTTCATTATTGGAAAGTGTAAACGGGGACCTTCTGCATA
CCTGTTTAGAACCAAAACCACCATGACACAGTTTTTATAGTGTCTGTATATTTGTGATGCAATGGTCTTGTAAG
GTTTTTAATGAAAACCTACCATTAGCCAGTCTTCTTACTGACAATAAATTATTAATAAAAT

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FIGURE 1531

GGGGCGCTGCCCCGGTGGCTCTGGCCCCGCCGGGCGGTTGGCCCAGCCCGCCGGCCCCCTGAGCTCCGGTAGCCCCG
CGCTGGAGAAGCTGTTTCGCCCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAGGCGGGGTCTGAAGCCCATT
TGAAGGTCAGGAGGCCCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAGCAGGAGCTGCGGGAGACTG
AGCACTTGCTGCACGATGAGAATGAAGGTTTAAGGAAACTTGCAGAGAATGAAATCACTTTGTGTCAAAAAGAAA
TAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGATGAAAATGATTTGATCCTGG
AAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTTGATATGTATCAGCAATATG
CTGCATTTAAAAGATGGCATTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGTGGCCTTAGACATGCATCTG
CCAGCATTGGGGGTTTCAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTACAGAGTACAAAGAGTGCCAA
AGACAGAAAAGCAAGGCTGCGTCCATACTAGCACCATGACTGTAGCAATATTACCCAGCCTACTGAGATTAATC
TGGTGATTAATCCGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGGGAGCAGCATGTAAATACCA
CGGACAGTGCTGTCCGGATAGTTCATCTTCCAACAGGTGTTGTTTCTGAATGTCAACAAGAGAGATCTCAGCTGA
AAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATGTAGAAGAAGAAATAAATAAAA
GACAGAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGAACATATAATTTTCCACAGA
ACCGGGTCACAGATCACAGAATAAACAAGACGCTGCATGATCTTGAACTTTTATGCAAGGAGATTATCTACTGG
ATGAACCTGTACAGTCATTGAAGGAATACGCCAATTATGAATCTTTAGTAGAAATTATTTCCCAAAAAGTTTAA

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FIGURE 1532

ATGCCGCTGCGGGTTTTTGCGGCTTTCTGCCCCCGCCGCGCGGCTTTCTGACCCTGGCCTCGCCGAATTTAGCC
CCTGCCGTACGGCTTTTTGCGGCTTTTGCCCTCGCCGCGCGGCTTTTTGCCGCGCAGCTTTTTGCATCTTT
CTCCCCCTGCCTCCGTGGCTTTTTGCCCCCTGAAGCCACAGCTTTTTGCCCTCGCCGCGCGGCTTTTTGCGACCT
TTTCCCCCTGCTGCCGCGAGCTTTTTGCCCCCACCACCGCGAATTTTTCTGCCGCGGCTTTTTGTCACCGCCGCC
GTGGCTTTTTATGGCTTTTGCCCCCGGTTTTTCCCGCCGCGGCTTCTGCCCCGAGCCCCGGCTTTTTGCGGC
TTTTTGCCGCGGTGGCTTTTGCCCCCGCCACTGTGGCTTTTTACGCTTTTCGCCCCCGCCGCGCAGGTTTTT
CCAGCCGCGGCTTCTTGCCCCACTGCCCGGGCTTTTTGTGTCGTTTTGCCCCGCGCGCGGCTTTTTGCTGC
TATTTGTCCCTGCCACCACAGCTTTTTGCCCCCGCCGCGCGGCTCCTTGCCCCCTACGTGGCTTCTGTCCCCG
CCTCCGCGGCTTTTTATACCCCCAGCCGCTTTTTGCCCCCGCCGCCACGGTTTTTGCTCCTGCCGCCGAGGGTT
TTTGCGCTTTCATGTCCCCACCGTCGTGGCTTTTTGCCGCCCTGCTTTTTGCCCCCTCTGACGCGGCTTTTTGC
GGCTTTTTTACCACCTCCACCGTGGCTTTTTGCGGCTTTTGGCACCAGGACGCCATGGCTTTTTTCAAGCTTTTTGCC
CCGCCGCCACGGCTTTTTGCTGCCGCCACACCGTTTAGCCCCCACCAGCGCTTTTTGCACCCGCGAGCCGCATCTT
TTTGCCGCGCGACTTCTTACCCCGCCACCGCGGTTTTTACCCTGAGGCTTTTTTACCCCGCGTCCGCGGGTTT
TTGCCCCCACCGCCGTGGCTTTTTGCCCCCACCGCCGCGGCTCTGAGGGCGGGATTGGCAGACTCGGCTGCTAGA
TCTACCGGCGTCTGGCTAAGGCAGCGCCGACGGTCACTCCTGGTCCAGCTCTCCTGGTTCGGGGGCTGCATAGA
GCAGCGCCAAGCTCGGCCCCGATGGGAGAGAAGAAGGAGAGCGGTGGAGGGGGTGACGCGGCTATTGCGGAGGGA
GGCGCAGGGGCCGAGCCAGCCGGGTGCTGCAGCAGTGCGGGCGAGCTCCAGAAGCTCATTGGCATCTCCTTTGGC
AGCCTGCGTTGGCTGCGACCAAGTGCCTGAGTCCAAAGACCTCACCAGCAGGAGATACGGACCGTGCAGGAT
GAGTCCGAGGGGCTCCTAGGCACAGAGGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGAGATGGC
ATGGAAAGGTAA

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FIGURE 1533

ATGGATGAGGACAGCTGTGTCAATGCCAGGCCACGGGAACCTCCACTTGCTAAACAGAATGTTATCCCGGAAATC
TGTGCCCTTCTCTGTATGCCTCTTGTCCTTTTTTCCTGCCCCTATTCAGTAACTTCACAAATATATAATGAGCAC
CTGCCAAGAACCATGTCAGGCCTGGGGCAACAAACAGCCCCTGCTGTCAAGGAACCCGCAGGCTTGTGGGGCCGT
CATGCTATCAAAAGGCAGCTCCAAGAGAGACAGTGGGATGAGTGTCAAACAGATGTTTCAGCCAAGTATGGCAGG
AGCTCAGAGGAGGCCTCATCACTTGTTCCTGGGACAGACGCTCTGGCTGGTCTGCCACCTCCCACCCAGCCCT
CCCTGTGCGCTGCTGCCAGAATGTCTTCCTGAACACAGCTATGACTGGGCCTACTGGCCTTGGCTGTTTGATCTA
AGCAGAGGCCTAACTGAGACTGAACTAAGCATTTTTCTCTCCCAGGAATTGGAATTTTGAACCACGAATGAGC
ACCTCTGCAGCCAAGGCCCATGAGCAATGGCACCCCTGGAGGAGAAGCCCAAGAAGCAGACCTGGTTCCAGCCCT
TTCACCGCCCGGGGTGCCACGGCCCTTTCAACGTGTATGGCAGGAGGTGTGCAGGGCATTTCAGGAGGCCTCCTGG
CTGGCACTCGACCCAATTAGTCATTCAACGCCAGGTCTGGGGCTGCTGTCTGTTGTCTCAAAGCCCCTCTGTGAA
CACATGGTAGAGTCTCCAACCTGTTCCAGATGTCCAACCTGGTCTGCGGCACTGATGGGCTCACATATACGAAT
GAATGCCAGCTCTGCTTGGCCCGGATCCTGTTTGAATTCTTCGGCCAAGTGAGGTACAGACCAGGGCCCTATGAA
CACCTGCAAGCAAGACAGCCACGCAGTTGTGGGTACCTTGGAAGAATATTGGAGAATGCAAGAGAGAACAGGGC
AGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAGAGGTCATAGGGGTTCCACAGTCTTTTCAGAAA
CTCATATTTAAGGTTTTACTATGCCCAAACAGAAATCCTGATGGGAAAAGGAAAATGCCTTGCTATATCTGTAATT
TATCAACATGAAAACATTACGGTTTTAATCATAAAATTCAAGAGATTTAACTTGTTTGCCATCAGTTCTCCACCA
AGGAAAAGATAAGTTGATATTGCCAGCCTTTCATGAGCTTCCTCCTAACAGTAGGCTTATCGCCTTTGCACATTCC
TATAGCAGAGAACATAGATCTGACTGCCTTAAGGGATACCAATTTCTCTCTCTTCAAATTCTATCATCCTCAGT
GGGCAAACAGAAGCCAGAAAATCCTGCCAAAAACCTTTCATCTGGTCAGGGAGTGGAGGCCGTGCTGTGCGCGCC
CTCTTGCGGGAGCCACCAGGCAAGCATCTTAAGAGGGGCAAGCGGAAAAGGTGTCTGTGGATCTGCCCTGTCTCT
GGTGGTTTCAGGCAGCCCTGCTTTCTTCCCGCTGGCAGTCAGCAGGGGGGAGAGTCACTCAGAGCAAGATGGA
GAGCCTTAG

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FIGURE 1534

CAGAAGAAGCCCTTTGAGGAGCACTGGAGGAAGCACACCCTGTCCATATGTGGACGTTGGCACTGGGAAGTGCACA
GCCAGAGAACAACACATCACACACAGGAAACAGTTGTGCTCATGTGATGGGGGCCTCAGCACTAGGAAGGAGTGG
ACTATTGGCACACGCAGCAGCTTGAATAAATCTGAAAGTCACTATGCTGTGTAAGAGAAGCCAAATTTAAAAAGT
GCATGCTGTGTACAGAGGGTGTCAAGAATGCCTCCTACGTGACGGAAGCAGATCCGTGGTTGCCTGCAGACTGG
CAGGAGCAGATTCCAAAGGCACAGGAAGAAGCTTGTGGGTAGAATGTGTTTATTACCTTCTGTGCATTATACCAT
AAAAAAGCTGGTCACAAAAATGCAAACCAAAACAAAGGTGAACTAGGATAAGATTTCTCACCTGTGTGATTGG
TAAACGTGCAGATGTGCCGTATGCTTTGTTTATGAAGCTGTGGGATACAAGGACTCTCATACGTCAGTGTGGAA
TGCAGAATATTGCAGCCTCATGGAAGAGGATTTGGCAGCGTCTAACAAAACCTACATGGCATTGCCCCTTTGACTC
AGCAATTCTAGAATCTGCCTCAAAAAAACTCCAGCAAAGAAATGAAAGGACTTTAGGCACAGAGTTCTTTTCACA
GCCTGCATGTGTTTGAACAAAGTTCTTCACTGTGGCGTTTGTAAATGTGGGGAAAAGAGAGATCAGGCTGGTAC
TGTGTCTGTGTAGAAAAGGAGGACGTAAGAACTCCATTTTGATCTGTACCCCGAGCGATTGTTTGGCCCTGAGA
TGCTGTTAATCTGTAACCTTTAGCCCCAGCCTTGAGCTCAGAGAAACCTGTGTTGTATGGAATCAAGTTTCAGGG
ATCTAGGGCTGTGCAGGACGTGCCTTGTTAAGAAAATGCTTACAGGCAGTACGCTTGGTAAAAAGTTATCGCCATT
CTCCATTCTCGATAAACCAGGGGCACAATGCACTGCGGAAAGCCGAGGGACCTCTGCCCAGGAAAGCCGGGTAC
CATCCAAGGTTTCTCCCCACTGAGATATGGCCTTGTGGGATGGGAAAGACCTGACCATCCACCAGCCCGACACCC
GTGAAGGATCTGTGCTGAGTAGGATTAGTAAAGAGGAAGGCCTCTGTCTCCTGCCTTCCCCTGGGAACGGAATG
TCTCAGTATAAACTGATCGTACATTTGTTCAATTCTGAGATAGGAGAAAAACCACCCTGTGGTGGGAGGCGAGA
CATGTTGGCCGCAATGCTGCTGTTACTCTTTACTCCACTGAAATGTTTGGGTGGAGAGAAGCATAAATCTGGCCT
ACGTGCACATCTAGACATAGTACCTTCCCTTGAACCTACTTGTGACACAGATTCCCTTTGCTCACATGTTTCTTG
CTGACCTTCTCCCCACTGTCACCCTGTTCTCCTGCCACATTCCCTTTGCTGAGATAGTGAATAATCAATA
AATACTGAGGGAACCTCAGAGACCGGTGCCAGTGCGGTCTCTGTATGCTGAGCGCCAGTCCCCTGGGCCACTT
TTCTTTCTCT

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FIGURE 1535

AATAAAGAAATAGTGCTTTAAGTCAATGAATTCCCTCCTTGGGACCCACTATCGAGAACTATCAGTGGTAACGTT
TTAAAAAATGACAAATTCAATCTGCTCTTGACTTGTGTGTCTTAAGATTTCCACTAAGTGTCTTCAAACCTCCCC
CTCCCCGGCTTCCCTGGATAATAGAAGTTCCCGAAGGCCGCCGATTCCAGAAGATACTGTCTGGCGTGAAATTAGT
CTCAGTAGAAACATAAGTCCCGCGCGTCTTGTGTGTGCGGTGCGCAAGCTTTTGGGCCCTCCCGAGAAAGGGAAG
TGCATTCTCGCTTCCGTAGCGGTCTCCGCCGGTTGGGGGGAAGTAATTCCGGTTGTTGCACCATGGCGTCCATGG
GGACCCTCGCCTTCGATGAATATGGGCGCCCTTTCTCATCATCAAGGATCAGGACCGCAAGTCCCGTCTTATGG
GACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACTTGGACCAA
ATGGGCTTGATAAGATGATGGTGGATAAGGATGGAGATGTGACTGTAACATAATGATGGGGCCACCATCTTAAGCA
TGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAATTGGAGATG
GAACCACAGGAGTGGTTGTCTGGCTGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGGCATTCACC
CAATCAGAATAGCCGATGGCTATGAGCAGGCTGCTCGTGTGCTATTGAACACCTGGACAAGATCAGCGATAGCG
TCCTTGTTGACATAAAGGACACCGAACCCCTGATTGAGACAGCAAAAACACGCTGGGCTCCAAAGTGGTCAACA
GTTGTACCCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCACTGTAGCAGATATGGAGCGGAGAGACGTTG
ACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGGCGTGATTG
TGGACAAGGATTTTCAGTCACCCACAGATGCCAAAAAAGTGGAAAGATGCGAAGATTGCAATTCTCACATGTCCAT
TTGAACCACCCAAACCAAAACAAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCTTCAGAAAT
ACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAGAGACTGGTGCTAACCTAGCAATTTGTCAGTGGG
GCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACTTGCTGCGGTTTCGCTGGGTAGGAGGACCTGAAA
TTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCCAGGTTCTCAGAGCTCACAGCCGAGAAGCTGGGCT
TTGCTGGTCTTGACAGGAGATCTCATTGTTGGGACAACTAAGGATAAAATGCTGGTCATCGAGCAGTGAAGAACT
CCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCTTCACGATG
CTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGATATCCTGTG
CCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGACGCAC
TGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGTCCGAGCCA
GACAGGTGAAGGAGATGAACCCTGCTCTTGCCATCGACTGTTTGACAAAGGGGACAAATGATATGAAGCAACAGC
ATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGATTTTGAAGA
TTGATGACATTTCGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAATATGTAGCAAGATCCACTTCTG
TGATTAAGTAAATGGATGTCTCGTGATGCATCTACAGTTATTTATTGTTACATCCTTTTCCAGACACTGTAGATG
CTATAATAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTACCATCTCA
ACTGCTTTTGTATTCAATTGATTAAAGAATCTGTTTAAACAACCTTTATCTTCTCTCGGGTTTAAAGAAACGTT
TATTGTAACAGTAATTAAATGCTGCCTTAATTG

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FIGURE 1536

MASMGTLAFDEYGRPFLIIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKGDVTVTNDGA
TILSMMDVDHQAIAKLMVELSKSQDDEIGDGTGTVVVLGALLEEAEQLLDRIHPRIADGYEQAAARVAIEHLDK
ISDSVLVDIKDTEPLIQTAKTTLGSKVVNSCHROMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLDTKLI
KGVIVDKDFSHPQMPKKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLA
ICQWGFDDDEANHLLLQNNLPAVRWVGGEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIE
QCKNSRAVTIFIRGGNKMIIIEAKRSLHDALCVIRNLIRDNRVVYGGGAAEISCALAVSQEADKCPTLEQYAMRA
FADALEVIPMALSENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGKTNDMKQQHVIETLIGKKQQISLATQMVR
MILKIDDIRKPGEESE

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FIGURE 1537

GTATCTGTCCGGACGGAAGCAGGAAGCGGGAGCGTAGGGCCACGCCTGCGGCGCTGCTGGTTGAGGCTGTGTGGG
TCGGGGACGGGCCGAGGCGATGGCGGAGAAGTTTGACCACCTAGAGGAGCACCTGGAGAAGTTCGTGGAGAACAT
TCGGCAGCTCGGCATCATCGTCAGTGA CTTCAGCCCAGCAGCCAGGCCGGGCTCAACCAAAAGCTGAATTTTAT
TGTTACTGGCTTACAGGATATTGACAAGTGCAGACAGCAGCTTCATGATATTACTGTACCGTTAGAAGTTTTTGA
ATATATAGATCAAGGTCGAAATCCCCAGCTCTACACCAAAGAGTGCCTGGAGAGGGCTCTAGCTAAAAATGAGCA
AGTTAAAGGCAAGATCGACACCATGAAGAAATTTAAAGCCTGTTGATTCAAGAACTTTCTAAAGTATTTCCGGA
AGACATGGCTAAGTATCGAAGCATCCGGGGGGAGGATCACCCGCCTTCTTAACCAGCTCACCCCTCCCTGTGTGAA
GATCCCCCGGGACTGCGATGCGGCGTGAGGCTGGGACTGCGAGTGCTGACGCCACCTTCCTGCTGAGGTGGGACT
GGGCCCTGGACACACCCCTCAGCCCTCTGTCTCTATTGTTTGGCCTCATGGGACCGAGGGGCTGGAGGAGAGGC
GGAGCTGTGCCCCAGCTGTTCCAGCAGCTTGTCTGGCGTCAACTGGCTTTTCAGAGTGCTGACCCCTCATCACTGT
GGGGATCATTCTCTCTGAGGGCAGATGAGGCGCAGGAAAATAGTCTTGAAATGTTAAATATGATGGGTAAATTA
AAAGTTTTACAACATTCTACCTAATATTTTTCTTTTAACATACTTTTTCTGTTCTATTGTATTATGGTGTCCGAA
AGCTAAATAACGACTAGGAAAAATTTTTTTAAAAAAGAAAAATCAGTTTAATGTGGGAAGTACTTAAGTGGTAT
TATATTTTACATTTTCAAGTATAGTGCATAAAGAATGTTTTAAATGTAAGTGTTCATGGATTTCAATTAGACA
TGCCTATAATAAATAAGTATGTGGCTTATTCCATGTAATTATTTTTGTAATATAATAACAATGTGTCTTGT

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FIGURE 1538

MAEKFDHLEEHLEKFVENIRQLGIIVSDFQPSSQAGLNQKLNFIIVTGLQDIDKCRQQLHDITVPLEVFYIDQGR
NPQLYTKECLERALAKNEQVKGKIDTMKKFKSLLIQELSKVFPEDMAKYRSIRGEDHPPS

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FIGURE 1539

GGGATTTGTTATTGCGAATGATGTGGACAACAAGCGCTGCTACCTGCTCGTCCATCAAGCCAAGAGGCTGAGCAG
CCCCTGCAATCATGGTGGTCAACCATGATGCCTCCAGCATACCCAGGCTCCAGATAGATGTGGACGGCAGGAAAGA
GATCCTCTTCTATGATCGAATTTTATGTGATGTCCCTTGCACTGAGACGGCACTATGAGAAAAACATTGATGT
TTGGAAAAAGTGGACCACCTTAAATAGCTTGCACTACATGGCTTACAGCTGCGGATTGCAACACGCGGGGCTGA
ACAGCTGGCTGAAGGTGGAAGGATGGTGTATTCCACGTGTTCACTAAACCTATTGAGGATGAAGCAGTCATAGC
ATCTTTACTGGAAAAAGTGAAGGTGCTTTGGAGCTTGCTGATGTGTCTAATGAACTGCCAGGGCTGAAGTGGAT
GCCTGGAATCACACAGTGAAGGTAATGACGAAAGATGGGCAGTGGTTTACAGACTGGGACGCTGTTCTTCACAG
CAGACACACCCAGATCCGACCTACCATGTTCCCTCCGAAGGACCCAGAAAAAGCTGCAGGCCATGCACCTGGAGCG
ATGCCTTAGGATATTACCCCATCATCAGAATACTGGAGGGTTTTTTGTGGCAGTATTGGTGAAAAATCTTCAAT
GCCGTGGAATAAACGTCAGCCAAAGCTTCAGGGTAAATCTGCAGAGACCAGAGAAAGCACACAGCTGAGCCCTGC
AGATCTCACAGAAGGGAAACCCACAGATCCCTCTAAGCTGGAAAGTCCGTCATTACAGGAACCTGGTGACACAGA
AATAGCTCATGCAACTGAGGATTTAGAGAATAATGGCAGTAAGAAAGATGGCGTGTGTGGTCTCTCCATCAAA
GAAAATGAAGTTATTTGGATTTAAAGAAGATCCATTTGTATTTATTCCTGAAGATGACCCATTATTTCCACCTAT
TGAGAAATTTTATGCTTTGGATCCTTCATTCCCAAGGATGAATTTGTTAACTCGGACTACAGAAGGGAAGAAAAG
GCAGCTCTACATGGTTTCTAAGGAGTTGCGGAATGTGCTGCTGAATAACAGTGAGAAGATGAAGGTTATTAACAC
GGGGATCAAAGTCTGGTGTAGAAATAACAGCGGTGAAGAGTTTGAAGTGTGCTTTCCGGCTGGCACAGGAGGGAAT
ATATACATTGTATCCATTTATTAAGTCAAGAATTATTACTGTATCAATGGAAGATGTTAAGATACTGTTGACCCA
GGAAAATCCCTTTTTTAGAAAAGTCAAGCAGTGAAGCTTACAGTCAAGCAAAGGACCTGGCAAAGGGAAGCATCGT
GCTGAAGTATGAACCAGATTCTGCGAATCCAGACGCTCTGCAGTGTCCCATCGTCTTATGCGGATGGCGGGGAAA
GGCCTCCATTGGAATTTTTGTGCCAAGAATGAACGGCTTCATTATCTCAGGATGATGGGGCTGGAGGTATTGGG
AGAAAAGAAGAAGGAAGGGTTATCCTCACAAATGAGAGTGCAGCCAGCACCGGACAGCCAGACAATGACGTGAC
TGAGGGACAGAGAGCAGGAGAGCCCAACAGCCAGATGCAGAAGAGGCCAACAGTCCAGACGTGACAGCAGGCTG
TGACCCGGCGGGGGTCCATCCACCCGGTGAGCAGGCCCAAGGCAGCGGGGGCCACACCCCTCACACGCAAAAC
TGGCTTCTTCTGGTCACTGGTGTCTGAAACCAAATCCAGAGCAGCCTGTGGCCTGTAAAGCATATATTTCTAATG
ACTGCAGACTGGTGGGATCATAGGAGCCTTCTGAATGACCAGGACTGCTTTCTTTGGAGCTGATGAAAATGTACT
CTTTTAGCGTGTTAGAAATCACTTGTTTTATTTTGTCTTTGGCCAAGCTGGGTCTAGTGTTTCTTTTGCTGGG
AATAGACTTTCAAAGTTGTACTTCTATCAAGAAACAAAAGTGCCTTGCAAGAAATTCAGGTCTTTTGTTAAGC
CTGTATTGGTCTTAAGGTGCAGTATTTTTTAAATTATTATTTATAGAAAGAAATCTATAAATTCCTGGGGAAGTGT
GTTATAAGCTTTAATAATTACATTGAGCTGCACCTCAGTGGTGTGTCATTAAACATGCAGTGGGGTTAATATCTGA
GGCCTCAGATGACTTTGTGCCTTTTTGAATAAAGGGTAAATAAACTCTCCAGAGTAAGAGCTGTATCGTGAAT
TGTCATACTAATTATTGAGGGGGACTTATGTGCTTTTATTGAATGGAGTGCTTTACAATTTTTTATTTTTAAATGG
GGTTGGGATCCTTGAATATTTCAATAAAATTGATAAAATAT

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FIGURE 1540

TCCTGCTTCGCCCTCCCAGCGCCTAGAAGCCTGCAGCTCCGGAGCAGTGGCCGCGCCACGCCGGCCCCAGCGCGC
AGAACCCTGCAGGCCCCGCCCCGTCCGCCCCGGGCGCGCCCGCCATGTCCTACCCGAGTTTGGATACCCCTACT
CCTCGGCTCCCCAGTTCTTGATGGCCACCAACTCCCTGAGCACGTGCTGCGAGTCCGGAGGCCGCACGCTGGCGG
ACTCCGGGCCCCGCCCTCGGCCAGGCGCCGGTCTACTGCCCGGTCTACGAGAGCCGGCTGCTGGCCACCGCGC
GCCACGAGCTCAACTCGGCCGCGGCGCTGGGCGTCTATGGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACT
ACGTGACCTACGGCTCGGAGGCGTCCGCCTTCTACTCGCTGAACAGCTTTGATTCCAAGGATGGTTTCGGGATCTG
CGCATGGGGGCTGGCACCAGCCGCTGCCGCCTACTACCCTTACGAGCCAGCTCTGGGCCAGTACCCCTATGACA
GGTATGGAACCATGGACAGCGGCACGCGGCGAAGAACGCCACGCGCGAGACCACCAGCACGCTCAAGGCCTGGC
TGCAGGAGCACCGCAAGAACCCTACCCACCAAGGGCGAGAAGATCATGCTGGCCATCATCACCAAGATGACCC
TCACACAGGTCTCCACCTGGTTCCCAACGCGCGCCGGCGCCTCAAGAAGGAGAACAAGATGACGTGGCCGCCGC
GGAACAAGTGCGCAGACGAGAAGCGGCCCTACGCGGAGGGCGAGGAGGAGGGGGGCGAGGAGGAGGCGCGGG
AGGAGCCCCCTCAAGAGCTCCAAGAACGCAGAGCCCGTGGGCAAAGAGGAGAAGGAGCTGGAGCTTAGTGACTTGG
ACGACTTCGACCCGCTGGAAGCAGAGCCGCGCGCTGCGAGCTGAAGCCGCCCTTCCACTCCCTGGACGGCGGT
TGGAGCGCGTCCCCGCGCGCCCGACGGCCCGGTCAAGGAGGCCTCAGGCGCGCTCCGGATGTCTCTGGCCGCGG
GTGGCGGAGCTGCTCTGGACGAGGACCTGGAGAGGGCCCGGAGCTGTCTCCGACGCGCGCGCGCGGCGGAGC
CACTGCCGGGCGCAGAGGGCGGCCCTCAGGTCTGCGAGGCCAAGCTGGGGTTTGTGCCGGCGGGGGCGTCCGCAG
GCCTGGAGGCTAAGCCGCGCATCTGGTCCCTGGCCACACAGCCACCGCCGCCGCCGCCACCTCCCTGA
GCCAGACTGAGTTTCCGTCGTGATGCTCAAGCGCCAAGGTCCCGCGGCCCTGCGGCTGTGTCTCCGCGCCCG
CCACGTCCCGTCTGTGGCCCTTCCCCACTCTGGCGCCCTGGACAGGCACCAGGACTCCCCGGTAACCAAGTCTCA
GAAACTGGGTGGACGGGGTCTTCCACGACCCCATCCTCAGGCACAGCACTTTGAACCAGGCCTGGGCCACCGCCA
AGGGCGCCCTCCTGGACCCCGGGCCTCTGGGACGCTCGCTGGGGGCGGGCGGAACGTGCTGACTGCACCCCTGG
CCGCGCCTTTCCGCCTGCCGTGCCCCAGGACGCCCCAGCTGCAGGCGCCGCCAGGGAGCTGCTCGCCCTGCCCA
AGGCCGGCGGCAAAACCTTCTGCGCCTGAGGCGGGCGGGTCCCGAGCCCAGGAGGGAACCCGCGCTCAGGCGGAC
GGCGCCGACTCTTTTCACTGAGTTTCCAGAGGAAGACTAGCGCGGCCACCGCGAAGCCGCAACCCACCGGAGAG
GGGGCTTCTGAACTTGGACTCCTGGGAACATGGACAAGCCCGGCGCTGCCACGCCGGGGCTCCACCGCCTGGGC
CTGAGCCTGACCGGGCCATTCCCAAATTTGGGACGCGGAAGGAGAGGCTCTCGGAGCAGAAGAGGCCAGATACCC
TGAAGCATAAAGTTTACGTCAAAAGTTTACATGGAGAAGGCGGTTCGGTTCTGAAGCGTGGTCTGCTGTCCCCTG
GGCGTGAGGCCTCCTGGGCCTGTCGGGCCTCCGATTTTCATCCTCAGCACGTAATGCTCACCAACAGCACTTGAC
TGAGTTGACTCTTGACACTCTTGACTCCATAATATGATGCTTTTTAAGATGTATGTTACACCAATAATTGCCT
GCTTCAGAGGCTAATATAACAAAACCAATAAAACCGAG

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FIGURE 1541

GACTGCGCGGCGGCAACAGCAGACATGTCGGGGGTCCGGGGCCTGTGCGGGCTGCTGAGCGCTCGGCGCCTGGCG
CTGGCCAAGGCGTGCCAACAGTGTGCAAACAGGAACCCGAGGTTTTCACTTCACTGTTGATGGGAACAAGAGG
GCATCTGCTAAAGTTTTAGATTCCATTTCTGCTCAGTATCCAGTAGTGGATCATGAATTTGATGCAGTGGTGGTA
GGCGCTGGAGGGGAGGCTTGCAGCTGCATTTGGCCTTTCTGAGGCAGGGTTAATACAGCATGTGTTACCAAG
CTGTTTTCCTACCAGGTCACACACTGTTGCAGCACAGGGAGGAATCAATGCTGCTCTGGGGAACATGGAGGAGGAC
AACTGGAGGTGGCATTCTACGACACCGTGAAGGGCTCCGACTGGCTGGGGGACCAGGATGCCATCCACTACATG
ACGGAGCAGGCCCCCGCCCGCTGGTCGAGCTAGAAAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAG
ATTTATCAGCGTGCATTTGGTGGACAGAGCCTCAAGTTTGGAAGGGCGGGCAGGCCCATCGGTGCTGCTGTGTG
GCTGATCGGACTGGCCACTCGCTATTGCACACCTTATATGGAAGGTCTCTGCGATATGATACCAGCTATTTTGTG
GAGTATTTTGCTTGGATCTCCTGATGGAGAATGGGAGTGCCGTGGTGTGTCATCGCACTGTGCATAGAGGACGGG
TCCATCCATCGCATAAGAGCAAAGAACACTGTTGTTGCCACAGGAGGCTACGGGCGCACCTACTTCAGCTGCACG
TCTGCCCACACCAGCACTGGCGACGGCACGGCCATGATCACCAGGGCAGGCCTTCCTTGCCAGGACCTAGAGTTT
GTTCAAGTTCCACCCTACAGGCATATATGGTGTGTTGTCTCATTACGGAAGGATGTCGTGGAGAGGGAGGCATT
CTCATTAACAGTCAAGGCGAAAGGTTTATGGAGCGATACGCCCTGTGCGGAAGGACCTGGCGTCTAGAGATGTG
GTGTCTCGGTCCATGACTCTGGAGATCCGAGAAGGAAGAGGCTGTGGCCCTGAGAAAGATCACGTCTACCTGCAG
CTGCACCACCTACCTCCAGAGCAGCTGGCCACGCGCCTGCCTGGCATTTCAGAGACAGCCATGATCTTCGCTGGC
GTGGACGTACGAAGGAGCCGATCCCTGTCTCCCCACCGTGCATTATAACATGGGCGGCATTCCACCAACTAC
AAGGGGCAGGTCCTGAGGCACGTGAATGGCCAGGATCAGATTGTGCCCGGCCTGTACGCCTGTGGGGAGGCCGCC
TGTGCCTCGGTACATGGTGCCAACCGCCTCGGGGCAAACCTCGCTCTTGACCTGGTTGTCTTTGGTCGGGCATGT
GCCCTGAGCATCGAAGAGTCATGCAGGCCTGGAGATAAAGTCCCTCCAATTAAACCAAACGCTGGGGAAGAATCT
GTCATGAATCTTGACAAATTGAGATTTGCTGATGGAAGCATAAGAACATCGGAACCTGCGACTCAGCATGCAGAAG
TCAATGCAAAATCATGCTGCCGTGTTCCGTGTGGGAAGCGTGTGCAAGAAGGTTGTGGGAAAATCAGCAAGCTC
TATGGAGACCTAAAGCACCTGAAGACGTTGACCGGGGAATGGTCTGGAACACGGACCTGGTGGAGACCCTGGAG
CTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGCGCGCAT
GCCAGGGAAGACTACAAGGTGCGGATTGATGAGTACGATTACTCCAAGCCCATCCAGGGGCAACAGAAGAAGCCC
TTTGAGGAGCACTGGAGGAAGCACACCCTGTCTATGTGGACGTTGGCACTGGGAAGGTCCTCTGGAATATAGA
CCCGTGATCGACAAAACCTTTGAACGAGGCTGACTGTGCCACCGTCCCGCCAGCCATTCGCTCCTACTGATGAGAC
AAGATGTGGTGTGATGACAGAATCAGCTTTTGTAATTATGTATAATAGCTCATGCATGTGTCCATGTCATAACTGTC
TTCATACGCTTCTGCACTCTGGGGAAGAAGGAGTACATTGAAGGGAGATTGGCACCTAGTGGCTGGGAGCTTGCC
AGGAACCCAGTGGCCAGGGAGCGTGGCACTTACCTTTGTCCCTTGCTTCATTCTTGTGAGATGATAAACTGGGC
ACAGCTCTTAAATAAAATATAAATGA

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FIGURE 1542

MSGVRGLSRLLSARRLALAKAWPTVLQTGTRGFHFTVDGNKRASAKVSDSISAQYPVVDHEFDVAVVVGAGGAGLR
AAFGLSEAGFNTACVTKLFPTRSHTVAAQGGINAALGNMEEDNWRWHFYDTVKGSDWLGDQDAIHYMTEQAPAAV
VELENYGMPFSRTEDGKIYQRAFGGQSLKFGKGGQAHRCVADRTGHSLHTLYGRSLRYDTSYFVEYFALDLL
MENGEGRGVIALCIEDGSIHRIRAKNTVVATGGYGRTYFSCTSAHTSTGDGTAMITRAGLPCQDLEFVQFHPTGI
YGAGCLITEGCRGEGGILINSQGERFMERYAPVAKDLASRDVVSRSMTLEIREGRGCGPEKDHVYLQLHHLPEQ
LATRLPGISETAMIFAGVDVTKEPIPVLPVHYNMGGIPTNYKGQVLRHVNGQDQIVPGLYACGEAACASVHGAN
RLGANSLDLVVFGRACALSIEESCRPGDKVPPIKPNAGEESVMNLDKLRFADGSIRTSELRLSMQKSMQNHAAV
FRVGSVLQEGCGKISKLYGDLKHLKTFDRGMVWNTDLVETLELQNLMLCALQTIYGAEARKESRGAHAREDYKVR
IDEYDYSKPIQGQKKPFEEHWRKHTLSYVDVGTGKVITLEYRPVIDKTLNEADCATVPPAIRSY

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FIGURE 1543

CTGGAGCTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGC
GCGCATGCCAGGGAAGACTACAAGGTGGGCCCTTCTCACCACGCCCACCTGCACCTGCCTTTTCCTGCCACCTGGT
GGGACTCAGCCCCACCCCTGCATTTTCTCTGCATTTTCTTTTCGTTGCCCCAAAAGTAAATCCAAAAAATGCCTTT
TTCCCCCCTGGTAACCTTTGATCCCTGGGTTCTCGCCATCTTCTGGATCACTGTGACCTTTTCCTTGCTTTGGGTC
GGCATCCACTGATGCCAGCAGTGGCATCTCCAAGCCAATGTGCTTTGCTGTTAGAAGGCCAAGGTTAGAAGTGCA
GCTAGAGTGGCAAGACCAGGAAATAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTG
TGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTGTGGAGGAAATGCCAGTTT
ATTAAATAACGAGTAAGCCACCGTTTCAAGCCTGCCCTGTGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGC
C

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FIGURE 1544

TTTACGATATCCAAATAAACTGGACACCATCACATGGACGTGGCAAGGACCTGGAGCGCTGGAAATCCTGTGGCT
CACGCTGTGTCTAGTTTACAAACCAAGTGGAAATCGAGTTCCTTCCTGTGTACAGCCCTTCTGAGGAGGAGAAGAG
GAACCCCGCGCTGTATGCCAGCAACGTGCGGCGAGTCATGGCCGAGGCCTTGGGTGTCTCCGTGACTGACTACAC
GTTCGAGGACTGCCAGCTGGCCCTGGCGGAAGGACAGCTCCGTCTCCCGCTGACACTTGCCTTTTAGAATTTGC
CAGGCTCGTGGGGGCTCGGGCTAAAACCAGAAAAGCTTGAAAAAGATCTGGACAGATACTCAGAAAGAGCCAG
GATGAAGGGAGGAGAGAAGATAGGTATTGCGGAGTTTGCGCCTCCCTGGAAGTCCCCGTTTCTGACTTGCTGGA
AGACATGTTTTACTGTTCGACGAGAGCGGCAGCGGCGAGGTGGACCTGCGAGAGTGTGTGGTTGCCCTGTCTGT
CGTCTGCCGGCCGGCCCGACCTGGACACCATCCAGCTGGCTTTCAAGATGTACGGAGCGCAAGAGGACGGCAG
CGTCGGCGAAGGTGACCTGTCTGCATCCTCAAGACGGCCCTGGGGGTGGCAGAGCTCACCGTGACCGACCTATT
CCGAGCCATTGACCAAGAGGAGAAGGGGAAGATCACATTGCTGACTTCCACAGGTTTGCAGAAATGTACCCTGC
CTTCGAGAGGAATACCTGTACCCGGATCAGACACATTTGAAAGCTGTGCAGAGACCTCACCTGCGCCAATCCC
AAACGGCTTCTGTGCCGATTTAGCCCCGAAAACCTCAGACGCTGGGCGGAAGCCTGTTGCAAGAAGCTGGATTA
GGACCCAGGGTTGCGGAGAGACGCGGCCCTCCCGCGTGGACATCACCGCCATGAGCCTCTTTGCGAGTGACCTC
TGGGCTCCGCTCCTCACTCCTGTGTACAGGCACTGTCTCAGCCCGAGTTCCAGGGGCTCGGGGGCTGTTTGT
ATCTTGTTCCTTTGTGAAGTGTGTTGCAGAACCGACGCTTACTGTGCGAGAATCGGAGGGCGCGCACGCGGATCC
CCCGCTGGCCTGGACCCCGTGGGGTCAGGTTCCCTGCCGGCGGGGGGCACCGGTGCCGCCCGCTGTTCTCCCA
CGGGGCCCTGGTTTCGAGTCTCTGTACAGCCTCTTCCGGCGGCAGCGTGCACCGGGCGGGCCTCCGTGCACACT
CAGCACACGCCTGCCACACAGCGTGCCTTGCCTGCTACTCTGGCACGAAACCTGTCTGCCTCTGTGGATCCACA
GCCTGGCAGAGCCGAGCCGTACCTGATTTTTAGTGTCTTACCTGTGTGCTGGAGCTCATGAGTATTTTATAA
ACTCCATTTAGGTACTTCAGGAAACATGCAGCATTTTTAAAAAATGAAAATTGTTTTCTACTTCATTTTTCT
TTTAGAGTCAAAGGATATTTATTTATAGGCCCTTTTTTTTTTAATATAGAATCTGAGGCTGTTTGGGCTTTGACT
TAAATTTCCATCAGGCCTCTCTCCAGCAGTAATCCCTCTCCTTCCGCTGGGTCCCCTGGGGAGGTGTGAACCTCA
AGGGCCTAGCCCCAAAACACTTTTTCTGCTTTTCTTAATCCTTTTCCAGTCCCCTCTTTTTTTATAAACGTTGGC
AGTTTGATGTTTCTGTTTCGGCATAACGTAATCCATTTCACTGTAGCCTAAACTCCAGTCCGAGGTTGGATATTG
TTCAAATGAGCAGGGCCCGAGCTGGAAGCGCAAGGCAGCCGCCCGCTGCCGCTCCTCCCTTGCCCTCAGGCCAG
GTCCCTGTGGAAGCGGCTGCATCTTCTGTACGCCCTGGTTTCCATGGTGACTGGCGTCACGCTGCCACCCGAG
TATGGCTGACCTTCTGCAGAGAGAGAGCCGAGTCTTTTGTCTGTGGAAGGAGACGCTGGGCTGTGCGGTGCG
GAGGGTGATGAGGATGTCTGGTGACAGCCGTGCGGACACCACTCCTCTCTGCAGCACTGCCTCCAGCGCCAGGG
TCGCGGGCACATCCCCTGAGAGCGGGGCTCCTGCCCCATCTTAGAGTCAAAGGCAGAGGGGCTTCCAGGCCCTG
GATGGGGTATTTTGGTGTACCTGAAGTCCCTCTGACATCACCTTGTTTTCATCATTTTTTATGACAGAATTAGAA
ACCCATCCTTCAAGCACAAATAATCATCACAGACTTGAGTTTGCTTCCTAAAGCAAAGGCTCCGGGTTTGTGTTGGA
AAATTTTTTGAATTTCTGAAATGAATTGATTTTTATATTTGGGGCATCTCTATAGAAAGTGACCACCAAGGCCAG
TAAGTACGGGAAAAAATGTTTACTAACTTCTCAGAGATTGCTGATACGCGTTTCTCCACTGACAGACATTTAAA
AACAACCTTCAGCTCCGTTTCAATCAATCACCTCGACTTGTTTTTTAGCATGGACACTGCCAGCAGGACAGACAG
GGATGGAGTAAACCGAAGTCAATTTAGGGCTCTTGGCGTGTGGACACAGAAGAAATCCTAGTGCAGCCTTTGG
TAGCTAACAGTCACTGATTTTATAATTGGAGAATGCGTAAAGATTCATTTTTCAAGGAGAAGAGCCTGCAATGG
CCAATGAAGGAGGTAAATAAACTAAGATATTCCGAGGGAAGGGACCCAGGCCACCTCCCTTCCGCAGGTCTGCAG
ATGAAGGGTTTTTGAATGAAATGCCACTGTGCATTTTCAGAAAAAAAATCTCTGATAAACAGACTTTGAATGG
ATGTTTGTTCCTCCTGATTCTCTTTTCTCTTCGTGGCGACTTAGAGTTGGCGGATATTCGGAAGTGTGAATGTAC
ATAGCGTTGAGTTAAACCCCTTGTGTGTGAGACAGGACGCGAGCGGGCCCTGGTGGCCTGGGGGCCAGACCCGTG
GGCAGGTGGGGCATGGGCCCTGGCCTGCGGGACCTGCTGGGTGTGAGGGCAGAGGGAGGGTTGCCATGAAGGA
ACTTGGGATTTTCAATGGAATAAGTAAACATAAAGTCTATACTTGGG

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FIGURE 1545

GGCGGCTGAGAGGCGGGCGGGCGGGGCGCGGGGCGCGGGGCGGCC**ATGT**GGAGCGGCGCGAGCTCCTTCACCA
GCTTGGTGGTGGGCGTGTTCGTGGTCTACGTGGTGCACACCTGCTGGGTCATGTACGGCATCGTCTACACCCGCC
CGTGCTCCGGCGACGCCAACTGCATCCAGCCCTACCTGGCGCGGCGGCCAAGCTGCAGCTGAGCGTGTACACCA
CGACGAGGTCCCACCTGGGTGCTGAGAACAACATCGACCTGGTCTTGAATGTGGAAGACTTTGATGTGGAGTCCA
AATTTGAAAGGACAGTTAATGTTTCTGTACCAAAGAAAACGAGAAACAATGGGACGCTGTATGCCTACATCTTCC
TCCATCACGCTGGGGTCCCTGCCGTGGCAGACGGGAAGCAGGTGCACCTGGTCAGTCCTCTGACCACCTACATGG
TCCCCAAGCCAGAAGAAATCAACCTGCTCACCGGGGAGTCTGATACACAGCAGATCGAGGCGGAGAAGAAGCCGA
CGAGTGCCCTGGATGAGCCAGTGTCCCACTGGCGACCGCGGCTGGCGCTGAACGTGATGGCGGACAACTTTGTCT
TTGACGGGTCCCTCCCTGCCGTGCCGATGTGCATCGGTACATGAAGATGATCCAGCTGGGGAAAACCGTGCATTACC
TGCCCATCCTGTTTCATCGACCAGCTCAGCAACCGCGTGAAGGACCTGATGGTCATAAACCGCTCCACCACCGAGC
TGCCCTCACCGTGTCTTACGACAAGGTCTCACTGGGGCGGCTGCGCTTCTGGATCCACATGCAGGACGCCGTGT
ACTCCCTGCAGCAGTTCGGGTTTTTCAGAGAAAGATGCTGATGAGGTGAAAGGAATTTTTGTAGATACCAACTTAT
ACTTCTGGCGCTGACCTTCTTTGTGCGAGCGTTCCATCTTCTCTTTGATTTCTGGCCTTTAAAAATGACATCA
GTTTCTGGAAGAAGAAGAAGAGCATGATCGGCATGTCCACCAAGGCAGTGCTCTGGCGCTGCTTCAGCACCGTGG
TCATCTTTCTGTTCCCTGCTGGACGAGCAGACGAGCCTGCTGGTGTCTCCGGCGGGTGTGGAGCCGCCATTG
AGCTGTGGAAAGTGAAGAAGGCATTGAAGATGACTATTTTTTGGAGAGGCCTGATGCCCGAATTTAGTTTGGCA
CTTACAGCGAATCTGAGAGGAAAACCGAGGAGTACGATACTCAGGCCATGAAGTACTTGTACATCCTGCTGTACC
CTCTCTGTGTCGGGGGTGCTGTCTATTCACTCCTGAATATCAAATATAAGAGCTGGTACTCCTGGTTAATCAACA
GCTTCGTCAACGGGGTCTATGCCTTTGGTTTTCTCTTCATGCTGCCCCAGCTCTTTGTGAAGTACAAGTTGAAGT
CAGTGGCACATCTGCCCTGGAAGGCCTTACCTACAAGGCTTTCAACACCTTCATTGATGACGTCTTGCCTTCA
TCATCACCATGCCCACGTCTCACCGGCTGGCCTGCTTCCGGGACGACGTGGTGTCTTGGTCTACCTGTACCAGC
GGTGGCTTTATCCTGTGGATAAACGCAGAGTGAACGAGTTTGGGGAGTCTACGAGGAGAAGGCCACGCGGGCGC
CCCACACGGAC**TGA**AGGCCGCCCGGGCTGCCGCCAGCCAAGTGCAACTTGAATTGTCAATGAGTATTTTTGGAAG
CATTTGGAGGAATTCCTAGACATTGCGTTTTCTGTGTTGCCAAAATCCCTTCGGACATTTCTCAGACATCTCCCA
AGTTCCCATCACGTCAGATTTGGAGCTGGTAGCGCTTACGATGCCCCACGTGTGAACATCTGTCTTGGTCACAG
AGCTGGGTGCTGCCGGTCACCTTGAGCTGTGGTGGCTCCCGGCACACGAGTGTCCGGGGTTCCGGCCATGTCTCA
CGCGGCGAGGGGTGGGAGCCCTCACAGGCAAGGGGGCTGTTGGATTTCATTTAGGTGGTTTTCTAAGTGCTCC
TTATGTGAATTTCAAACACGTATGGAATTCATTCCGCATGGACTCTGGGATCAAAGGCTCTTTCTCTTTTGT
GAGAGTTGGTTGTTTTAAAGCTTAATGTATGTTTCTATTTTAAAAATAAAAAAAAAAAAAAAAAA

1672/6881
FIGURE 1546

MWSGRSSFTSLVVGVFVVYVVHTCWVMYGIVYTRPCSGDANCIQPYLARRPKLQLSVYTTTRSHLGAENNIDLVL
NVEDFDVESKFERTVNVSVPPKTRNNGTLYAYIFLHHAGVLPWHDGKQVHLVSPLTTYMVPKPPEEINLLTGESDT
QQIEAEKKPTSALDEPVSHWRPRLALNVMADNFVFDGSSLPADVHRMCKMIQLGKTVHYLPILFIDQLSNRVKDL
MVINRSTTELPLTVSYDKVSLGRLRFWIHMQDAVYSLQQFGFSEKDADEVKGIFVDTNLYFLALTFFVAAFHLLF
DFLAFKNDISFWKKKSMIGMSTKAVLWRCFSTVVIFLFLLEQTSLLVLVPAGVGAAIELWKVKKALKMTIFWR
GLMPEFQFGTYSESERKTEEYDTQAMKYLSYLLYPLCVGGAVYSLNLIKYSWYSWLINSFVNGVYAFGFLFMLP
QLFVNYKLKSAHLWPKAFTYKAFNTFIDDVFAFIITMPTSHRLACFRDDVVFLVYLYQRWLYPVDKRRVNEFGE
SYEEKATRAPHTD

1673/6881
FIGURE 1547

CTTCCCTTTTGCGGCTATCACCGAAGCAGGAGTGGCCAAAATGAAGTTTAAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTGGAAGGAAGACTATGTCTTCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACTGTCCACGTAGGCATTACCCCAGCAAGGTGGTTATCACTAGGCTAAAACCTGGA
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACAATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTCGATTAAAACCTGAAACAAAGAAAAA

1674/6881
FIGURE 1548

CCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCG
TCATTGGACACGTAGATTCCGGCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTGTTGGCCGAGTGGAG
ACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAA
ATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAG
GATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAG
GTGATTATCCTGAACCATCCAGGCCAATAAGCGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATT
GCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTC
TTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTTCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTAT
CCACCTTTGGGTGCTTTGCTGTTTCGTGATATGAGACACACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAG
AAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCAGAAAGCTCAGATGGCTAAATGAATATTATCCCTAATA
C

1675/6881
FIGURE 1549

CGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTG
GTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTGCTTGAGGCTCTGGACTGCAT
CCTACCACCAACTCGTCCAAGTACAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGG
TAGTGTTCTGTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT
TACAACAGAAGTAAAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTT
CCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAAT
GGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCTGT
ATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAA
TATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTTCGTGA
TATGAGACACACAGTTGCGGTGGGTGTCATCAAAGC

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FIGURE 1550

GCCAAAATGGGAAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAG
ATGGGAAAGGGCTCTTTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTGGAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA
ATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAAATTCTTGAAGTCCGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTGCTGTTCTGTGATATGAGACACACAGTTGCGGTGGGTGTC

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FIGURE 1551

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAGA
CTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTCGTGATATGAGACACACAGTTGCGGTGGG

1678/6881
FIGURE 1552

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC
AAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGGATGTCTACAAAATTGGTGGTATTGGTAGTG
TTCCTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAA
CAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATG
TCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAG
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCGTATTGG
ATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGC
TGGAAGATGGCCCTAAATTCTTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCCTGGCAAGCCCATGTGTG

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FIGURE 1553

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC
AAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTCTTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCAAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTG
GGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCG
CTGGCTATGCCCCGTGATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCCGGTGATGCTGCCATTGTTGATATGG
TTCTTGGCAAGCCC

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FIGURE 1554

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGATATCTCCTTGTTGGAAATTTGAGACCAGCAAGTACTATGTGACT
ATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTC
CCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTT
CTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGC
CAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTA
GCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGA
TGGAAGTCACCCGTAAGGATGGCAATGCCAGTGGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCA
ACTCGTCCAAGTACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTT
GTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAA
GTTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAAT
GACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

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FIGURE 1555

TATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCT
TTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGG
AAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATT
ACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCT
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTAAAC
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATT
AAGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAG
CCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTG
CTTGAGGGCTCCAGTCAACGTTACAACAGAAGTAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCT
TCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGA
CAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG

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FIGURE 1556

GTCGGCGTGTCGAGTGGCTCTTCCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG
ATCACCAGGTGTTTGGCTTGGTCGGTTCCTATTTCTCGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG
GTGGCGTTCCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCGCTACAACCTGCGGCGGAAG
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTGCGGGAGGAG
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGCACTAAGAAGTTTGCCTCTTTCAACGCCTACGAGAACCAC
CTCAAGTCCCGGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT
GAAAAGAAGTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC
ATCAAGGCCAGCCGTCCATGTCTCCCAAGAAGGCGCCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAG
CAGGCGAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGCCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCTGATATAGAATATCTT
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTTGCTTGTGGTGCAACGAG
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGGAG
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG
CCTTCTGGTGCCAGAGTGGGTGATCGCTCCTTGATGAGATACTACAAACAGCGATTTGGCTTGTCAAGAGCTGTG
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAGGATGAAATCAAAATGGATGCTGAAGACAGGA
ATGAAGAACAATGCCACCAAGCAGATGCACTTTCGGGTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA
TCATCTCCTGCCCAAGTTTCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCCTTTTGCTGC
TACTTCATTGCTTCTGACCTAATAATAAAAGTTAGAACCAT

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FIGURE 1557

GAACTCCAAGATGGGAGGCAAGCTCAGCAAGAAGAAGAAGGGCTACAATGTGAACGACGAGAAAGCCAAGGAGAA
AGACAAGAAGGCCGAGGGCGCGGCGACGGAAGAGGAGGGGACCCCGAAGGAGAGTGAGCCCCAGGCGGGCCGCAGA
GCCCCGCCGAGGCCAAGGAGGGCAAGGAGAAGCCCGACCAGGACGCCGAGGGCAAGGCCGAGGAGAAGGAGGGCGA
GAAGGACGCGGCGGCTGCCAAGGAGGAGGCCCCGAAGGCGGAGCCCGAGAAGACGGAGGGCGCGGCAGAGGCCAA
GGCTGAGCCCCCGAAGGCGCCGAGCAGGAGCAGGCGGCCCCCGGCCCGCTGCGGGCGGGCAGGCCCCCAAAGC
TGCTGAGGGCCGCCGCGGCCCCGCGGAGAGCGCGGCCCCCTGCCGCCGGGGAGGAGCCCAGCAAGGAGGAAGGGGA
ACCCAAAAAGACTGAGGCGCCCGCAGCTCCTGCCGCCAGGAGACCAAAGTGACGGGGCCCCAGCTTCAGACTC
AAAACCCGGCAGCTCGGAGGCTGCCCCCTCTTCCAAGGAGACCCCGCAGCCACGGAAGCGCCTAGTTCCACACC
CAAGGCCCAGGGCCCCGCAGCCTCTGCAGAAGAGCCCCAAGCCGGTGGAGGCCCCGGCAGCTAATTCCGACCAAAC
CGTAACCGTGAAAGAGTGACAAGGACAGCCTATAGGAAAAACAATACCACTTAAACAATCTCCTCTCTCTCTCT
CTCTCTCTCTCTATCTCTCTCTCTATCTCCT
ACTAATTGTTTCAAATTGGAAGTAATGATATGTATTGCCCAAGGAAAAATACAGGATGTTGTCCCATCAAGGGA
GGGAGGGGGTGGGAGAATCCAAATAGTATTTTTGTGGGGAAATATCTAATATACCTTCAGTCAACTTTACCAAGA
AGTCCTGGATTTCCAAGATCCGCGTCTGAAAGTGACGTACATCGTTTGTACCTGAAACTGCCGCCACATGCACCTC
CTCCACCGCTGAGAGTTGAATAGCTTTTCTTCTGCAATGGGAGTTGGGAGTGATGCGTTTGATTCTGCCACAGG
GCCTGTGCCAAGGCAATCAGATCTTTATGAGAGCAGTATTTTCTGTGTTTTCTTTTTAATTTACAGCCTTTCTTA
TTTTGATATTTTTTAATGTTGTGGATGAATGCCAGCTTTCAGACAGAGCCCACTTAGCTTGTCACATGGATCT
CAATGCCAATCCTCCATTCTTCTCTCCAGATATTTTTGGGAGTGACAAACATTCTCTCATCCTACTTAGCCTAC
CTAGATTTCTCATGACGAGTTAATGCATGTCCGTGGTTGGGTGCACCTGTAGTTCTGTTTATTGGTCAGTGAAA
TG

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FIGURE 1558

MGGKLSKKKKGYNVNDEKAKEKDKKAEGAATEEEGTPKESEPQAAAEPAEAKEGKEKPDQDAEGKAEEKEGEKDA
AAAKEEAPKAEPEKTEGAAEAKAEPKAPQEQAAPGPAAGGEAPKAAEAAAAPAESAAPAAGEEPSKEEGEPKK
TEAPAAPAAQETKSDGAPASDSKPGSSEAAPSSKETPAATEAPSSTPKAQGPAASAEEPKEVEAPAANSQTVTV
KE

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FIGURE 1559

CGAGAGTCGTCGGGGTTTCCTGCTTCAACAGTGCTTGGACAGAACCTGGCGCTCGTCCCCACACCGGCCGGCTG
CCCATAGCCAGCCCTCCGTCACCTCCTCACCCGCAGCCGCTCTCCTTAGTCGCCGCCATGACGACCGCGTCCAC
CTCACAGGTGCGCCAGGACTACCACCAGGACTAAAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACGCC
TCCTGCGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTT
CTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAAGGAGGTGGCCGAATC
TTCCTTCAGGATATCAAGAAACCGGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTACAT
TTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCCATTGTGT
GACTTCATTGAGACACATTACCTGAATGAGCAGGTCAAAGCCATCAAAGAATTGGGTGACCACATGACCAACTTG
TGCAAGATGGGAGCACCCGAATCTAGCTTGGCGGAATATCTCTTTGACCAGCACACCCTGGGAGACAGTGATAAT
GAAAGCTAAGCCTCAGGCTAATTTCCCCATAGCCGTGGGGTGACTTCCCTGGTCACCAAGG

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FIGURE 1560

MSYYFDRDDVALKNFAKYFLHQSHEEREHAEKLMKLQNOGGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVN
QSLLELHKLATDKNDPHLCDFIETHYLNEQVKAIKELGDHMTNLCKMGAPESSLAEYLFQHTLGSDNES

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FIGURE 1561

ATGCCCCAAAACGATCAGTGTGCGTGTGACCACCATGGACGCAGAGCTGGAGTTTACCATCCAGCCCCAACACCACC
GGGAAGCAGCTATTTGACCAGAAGGTGACTGCCCAGGAAGTGC GGAAGGAAAGCCCCCTGCTCTTTAAGTTCAGT
GCCAAGTTCTACCCTGAGGATGTGTCCGACCGAGGAATTGATTAGGACACCACTCAGCGTCTGTTCCCTTCTGCA
ATGAAAGAGGGCATTCTCAGTGATGATATTTACTGCCGGCCTGAGACTGCTGTGCTGCTGGCCTCCCATGCTGTC
CAGTCTAAGTATGGGAACCTCAGTAAGGAGGTGCATAAGTCTGGCTACCTGGCCGGAGACGAGTTGCTCCACAG
AGAGTCCTGGAACAGCACAAACTCAGCAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCATGAGGAACACCGT
GGCATGCTCAGGGAGGATGCTGTCTGGAGTATCTGAAGATTGCTCAAGATCTGGAGATGTATGGTGTAAGTAC
TTCAGCATCAAGAAAAAGAAAGGCTCAGAGCTGTGGCTGGGGGTGGATGCACTGGGTCTCAACATCTATGAGCAG
CATGACAGACTAACTCCCAAGATAGGCTTTTCCTTGGAGTGAAATCAGGAGCATTTCCTTTCAATGATAAGAACTTT
GTCATCAAGCCCATTGACAAAAGAGCCCCGGACTTTGTCTTCTATGCTCCCTGGCTGCAGATTAACAAGCGGATC
TTGGCCTTGTGCATGGGGAACCGTGAACATAACATGCGCCGTCGCAAGCCTGACACCATTGAGGTGCAGCAGATG
AAGGCACGGGCCCCGGGAGGAGAAGCACCAGAAGCAGATGGAGCGTGCTATGCTGGAAAATGAGAAGAAGCGTGAA
ATGGCAGAAAAGCAGAAAAGAGAAGATTGAACGGGAGAAGGAGCTGATGGGGAGGCTGAAGCAGATCGAGGAACAG
ACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACCCGTAGGGCTCTGGAACCTGGGAAGGAACGGAAGCATGCC
CAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCTTCAAGAAGCTGAAGAGGCCAAGGAAAAGAAAGAGAGTGAGGCT
ATGGAGTGGCAGCAGAAGGCCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATG
AGTACATCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCT
GACCTACGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAATGTACCACTGAGGCAGAGAAGAATGAGCGT
GTGCAGAAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAGTGCCCGAGATGAGTCCAAGAAGACTGCCAATGAC
ATGATCCATGCTGAGAACATGTGA

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FIGURE 1562

ATGCCGCCCTCGCCTGCGTCCTGCGGCCGTCCCGAGGTGTCACGCTGTCAACAACACAAAGTCGTAGTTGACGTC
GACCATGAGCACTTAGCAGGAGGGCACGCACAGGGACTTGTGCCCCGGCGGGGTCCAGCTCCTGCACCTTCAGCTG
CCACTCCATCCTCTGCACAGCGTTCAGGGCCGCAGCCTCGTGCTGCTGCCGCATGAGGAGGAAGAAGCTAGATGAA
CTTATGAGTGAAGAAGCCTATGAGAAATACATAAAATCTATTGAGGAGTGA

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FIGURE 1563

MPPSPASCGRPEVSRCCQHKVVVDVDHEHLAGGHAQGLVPGGVQLLHLQLPLHPLHSVQGRSLVLLPHEEEELDE
LMSEEAYEKYIKSIEE

1690/6881
FIGURE 1564

GCCGAGCGATGGGCATCTCTCGGGACAACTGGCACCAGCGCCGCAAAACCGGGGGCAAGAGAAAGCCCTACCACA
AGAAGCGGAAGTATGAGTTGGAGCGCCCAGCTGCCAACACCAAGATTGGCCCCCGCCGATCCACACAGTCCGTG
TGCAGGGAATGTTGTACTCGTAAAACAAGGATCATCGATGTTGTCTACAATGCATCTAATAATGAGCTGGTTCGT
ACCAAGACCCCTGGTGAAGAATTGCATCGTGCTCATCGACAGCACACCGTGCCGACAGTGGTAAGATGTCCCACTA
CGTGCTGCCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAAACGATT
TAAACAAATTCAGAAGAAATATGATGAAAGGAAAAAGAATGCCAAAATCAGCAGTCTCCTGGAAGAGCAGTTCCA
GCAGGGCAAGCTTCTTGTCATGCATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGG
CAAAGGGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAAGGCAAATAAATCCTTGTTTTGTCTTCACCCAT
GTAATAAAGGTGTTTATTGTTTTGTTCCC

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FIGURE 1565

CCGAGGCCAAGTCCCGGGCGCTAGCCACCTCCCACCCGCCTCTTGGCTCCTCTCCTCTAGGCCGTCGCTTTTCGG
GTTCTCTCATCGCTTCGTCGTTTCGCCAATGTTTGGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAG
GAGAAGCCGATTGGTGCTGGTGAAGAGAAGCAAAAGGAAGGAGGCCAAAAAGAAGCAAAAGGATCTGGAGAT
GGAGGTCGAGCTGAGTTGAATCCTTGGCCTGAATATATTTACACACGTCTTGAGATGTATAATACTAAAAGCA
GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAAGTCACTTTGCCTGATGGTAAA
CAGGTTGATGCGGAATCTTGGAAAACCTACACCATATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAAC
ACCGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACCTTGGAGCTT
CTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAGCCATGGAA
AGAGTCTATGGTGGATGTTTATGCTACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAA
GGGGGTGTGTCTAGCAATGATTTCTTCTCTGGAGGCTTTGTGTAAGAAAATCATTAAAGAAAAACAAGCTTTT
GAAAGACTGGAAGTTAAGAAAGAACTTTTACTGGCAATGTTTAAAGTACAACAAGTTCAAATGCCGGATATTGAAT
GAAAAGGTGAATACTCCAACCTACCACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGGTCTCATGTT
AGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAAATTCCTCCACGTACTGGGAAGGCAAAGCAGATATG
GAGACTCTCCAGAGAATTTATGGCATTTCATTCCAGATCCTAAATGTTGAAAGAGTGGGAGAAGTTCCAAGAG
GAAGCTAAAAACCGAGATCATAGGAAAATTGGCAGGGACCAAGAACTATATTTCTTTTCACTGAACTCAGCCCTGGA
AGTTGCTTTTTTCTGCCAAAAGGAGCCTACATTTATAATGCATTATTGAATTCATTAGGAGCGAATATAGGAAA
AGAGGATTCAGGAGGTAGTCACCCCAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCAC
TACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTGAAACCCATGAACTGCCCAGGACAC
TGCCTTATGTTTGATCATCGGCCAAGGTCTGGCGAGAAGTGCCTCTGCGGCTAGCTGATTTTGGGGTACTTTCAT
AGGAACGAGCTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGATGCTCACATATTC
TGTGCCATGGAGCAGATTGAAGATGAAATAAAAAGGTTGTTTGGAATTTCTACGTACGGTATATAGCGTATTGGA
TTTTCTTTTAACTAAACCTTTCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG
AAACAACCTGAAAACAGTCTGAATGAATTTGGTGAAAAGTGGGAGTTAACTCTGGAGATGGAGCTTTCTATGGC
CCAAAGATTGACATACAGATTAAAGATGCGATTGGGCGGTACCACCAGTGTGCAACCATCCAGCTGGATTTCAG
TTGCCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGATGATAAGAAAAGGCCAGTGATTGTTTCATCGA
GCCATCTTGGGATCAGTGGAAGAATGATTGCTATCCTCACAGAAAATATGGGGGCAATGGCCCTTTTGGCTG
TCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGTGATGAATATGCCCAAAAGGTACGACAACAATTC
CACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAATAAAAAAGATTGAAATGCACAG
TTAGCACAGTATAACTTCATTTTAGTTGTTGGTGAAAAAGAGAAAATCAGTGGCACTGTTAATATCCGCACAAGA
GACAATAAGGTCCACGGGGAACGCACCATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGCAGC
AAACAGGCAGAAGAAGAATTTTAAATGAAAAAATTACCCAGATTGGCTCCATGGAAAAGGAGGAACAGCGTTTCCG
TAAAATTGACTTTGTACTCTGAAAACGTCAATTTATATTGAACTTGGAGGAGTTTGGCAAAGTCTGAATAGGTCA
ACCTGCAGGCGTAACTATTTTTGACCTAGTCAGTTTTTAAACAATGTGCATTTGAAGGAGTTAATTTAAAGAGAG
CCAATAAAATGATTTTACTCATTTCAGTATCTGAGTACTGGAAGTGAAACATGAGGAATGCTTTAGTGTAATGTGG
GAGAACTTTTTTGTAATTTAATGCAATTGAAAAAGTTTTCAAATTCAATTAAGATAACTAGAATTGGATTATGG
TGTA

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FIGURE 1566

MFEEKASSPSGKMGGEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMYNILKAEHDSILAEK
AEKDSKPIKVTLPDGKQVDAESWKTPYQIACGISQGLADNTVIAKVNNVVWDLDRPLEEDCTLELLKFEDEEAQ
AVYWHSSAHIMGEAMERVYGGCLCYGPPIENGFIYDMYLEEGGVSSNDFSSLEALCKKIIKEKQAFERLEVKKET
LLAMFKYNKFKCRILNEKVNTPTTTVYRCGPLIDLRCRGPVHRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGI
SFPDPKMLKEWEKFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGAYIYNALIEFIRSEYRKRGFQEVVTP
NIFNSRLWMTSGHWQHYSNMFSFEVEKELFALKPMNCPGHCLMFDHRPRSWRELPLRLADFGVLHRNELSGALT
GLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDIEVWDQAEKQLENSLNE
FGEKWELNSGDGAFYGPKIDIQIKDAIGRYHQCATIQLDFQLPIRFNLTYVSHDGDGDKKRPVIVHRAILGSVERM
IAILTENYGGKWPFWLSPRQVMVVPVGPTCDEYAQKVRQQFHDAKFMADIDLDPGCTLNKKIRNAQLAQYNFILV
VGEKEKISGTVNIRTRDNKVHGERTISETIERLQQLKEFRSKQAEEEF

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FIGURE 1567

GAGCATGGATGATTGGCCAGAAATGAAGAAGAAGTTTGCAGATGTATTTGCAAAGAAGACGAAGGCAGAGTGGTG
TCAAATCTTTGACGGCACAGATGCCTGTGTGACTCCGGTTCTGACTTTTGAGGAGGTTGTTTCATCATGATCACAA
CAAGGAACGGGGCTCGTTTATCACCAGTGAGGAGCAGGACGTGAGCCCCGCCCTGCACCTCTGCTGTAAACAC
CCCAGCCATCCCTTCTTTCAAAGGGATCCTTTTCATAGGAGAACACACTGAGGAGATACTTGAAGAATTGGATT
CAGCCGCGAAGAGATTTATCAGCTTAACTCAGATAAAATCATTGAAAGTAATAAGGCTGGTAGCAAGTTCTGGAT
CTTATACCCAACACACAGCAACATCCAGAAATAAAGATCTCAGGACCCCCAGCAAGTCGTTTTGTGTCTCCTTG
GACTGAGTTAAGTTACAAGCCTTCTTATACCTGTCTTTGACAAAGAAGACGGGATTGTCTTTACATAAAACCAG
CCTGCTCCTGGAGCTTCCCTGGACTCAACTTCCTAAAGGCATGTGAGGAAGGGGTAGATTCCACAATCTAATCCG
GGTGCCATCAGAGTAGAGGGAGTAGAGAATGGATGTTGGGTAGGCCATCAATAAGGTCCATTCTGCGCAGTATCT
CAACTGCCGTTCAACAATCGCAAGAGGAAGGTGGAGCAGGTTTCTTCATCTTACAGTTGAGAAAACAGAGACTCA
GAAGGGCTTCTTAGTTTCGTGTTTCCCTTAGCGCCTCAGTGATTTTTTCATGGTGGCTTAGGCCAAAAGAAATATC
TAACCATTCAATTTATAAATAATTAGGTCCCCAACGAATTAAATATTATGTCCTACCAACTTATTAGCTGCTTGA
AAAATATAATACACATAAATAAAAAAA

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FIGURE 1568

GGCGCCGGGGATTGGGAGGGCTTCTTGCAGGCTGCTGGGCTGGGGCTAAGGGCTGCTCAGTTTCCTTCAGCGGGG
CACTGGGAAGCGCCATGGCACTGCAGGGCATCTCGGTCGTGGAGCTGTCCGGCCTGGCCCCGGGCCCGTTCTGTG
CTATGGTCCTGGCTGACTTCGGGGCGGTGTGGTACGCGTGGACCGGCCCGGCTCCCGCTACGACGTGAGCCGCT
TGGGCCGGGGCAAGCGCTCGCTAGTGCTGGACCTGAAGCAGCCGCGGGGAGCCGCCGTGCTGCGGCGTCTGTGCA
AGCGGTGCGGATGTGCTGCTGGAGCCCTTCCGCCGCGGTGTGATGGAGAACTCCAGCTGGGCCCAGAGATTCTGC
AGCGGGAAAATCCAAGGCTTATTTATGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTTCTGCCGGTTAGCTG
GCCACGATATCAACTATTTGGCTTTGTGAGGTGTTCTCTCAAAAATTGGCAGAAGTGGTGAGAATCCGTATGCCC
CGCTGAATCTCTGGCTGACTTTGCTGGTGGTGGCCTTATGTGTGCACTGGGCATTATAATGGCTCTTTTTGACC
GCACACGCACTGGCAAGGGTCAGGTCATTGATGCAAATATGGTGGAAGGAACAGCATATTTAAGTTCTTTTCTGT
GGAAAATCAGAAATCGAGTCTGTGGGAAGCACCTCGAGGACAGAAATGTTGGATGGTGGAGCACCTTTCTATA
CGACTTACAGGACAGCAGATGGGGAATTCATGGCTGTTGGAGCAATAGAACCCAGTTCTACGAGCTGCTGATCA
AAGGACTTGGACTAAAGTCTGATGAACCTCCCAATCAGATGAGCATGGATGATTGGCCAGAAATGAAGAAGAAGT
TTGCAGATGTATTTGCAAAGAAGACGAAGGCAGAGTGGTGTCAAATCTTTGACGGCACAGATGCCTGTGTGACTC
CGGTTCTGACTTTTGAGGAGGTTGTTTCATCATGATCACAACAAGGAACGGGGCTCGTTTATCACCAGTGAGGAGC
AGGACGTGAGCCCCCGCCCTGCACCTCTGCTGTTAAACACCCAGCCATCCCTTCTTTCAAAGGGATCCTTTCA
TAGGAGAACACACTGAGGAGATACTTGAAGAATTTGGATTTCAGCCGCGAAGAGATTTATCAGCTTAACTCAGATA
AAATCATTGAAAGTAATAAGGTAAAAGCTAGTCTCTTAACTTCCAGGCCCCAGGCTCAAGTGAATTTGAATACTGC
ATTTACAGTGTAGAGTAACACATAACATTGTATGCATGGAAACATGGAGGAACAGTATTACAGTGTCTTACCCT
CTAATCAAGAAAAGAATTACAGACTCTGATTCTACAGTGTGATTGAATTTCTAAAAATGGTTATCATTAGGGCTT
TTGATTTATAAAACTTTGGGTACTTATACTAAATTATGGTAGTTATTCTGCCTTCCAGTTTGCTTGATATATTG
TTGATATTAAGATTCTTGACTTATATTTGAATGGGTTCTAGTGAAAAAGGAATGATATATTCTTGAAGACATCG
ATATACATTTATTTACACTCTTGATTCTACAATGTAGAAAATGAGGAAATGCCACAAATTGTATGGTGATAAAAG
TCACGTGAAACAGAGTGATTGTTGCATCCAGGCCTTTTGTCTTGGTGTTCATGATCTCCCTCTAAGCACATTCC
AACTTTAGCAACAGTTATCACACTTGTAAATTTGCAAAGAAAAGTTTCACCTGTATTGAATCAGAATGCCTTCA
ACTGAAAAAAACATATCCAAAATAATGAGGAAATGTGTTGGCTCACTACGTAGAGTCCAGAGGGACAGTCAGTTT
TAGGGTTGCCTGTATCCAGTAACCTCGGGCCTGTTTCCCGTGGGTCTCTGGGCTGTCAGCTTTCTTTCTCCAT
GTGTTTGATTCTCTCCTCAGGCTGGTAGCAAGTTCTGGATCTTATACCCAACACACAGCAACATCCAGAAATAAG
AICTCAGGACCCCCC

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FIGURE 1569

MALQGISVVELSGLAPGPF CAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGA AVLRR LCKRSDV
LLEPFRRGVMEKLQLGPEILQRENPR LIYARLSGFGQSGSFCRLAGHD INYLALSGVLSKIGRSGENPYAPLNLL
ADFAGGGLMCALGIIMALFDRTRTGKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRT
ADGEFMAVGAIEPQFYELLIKGLGLKSDLPNQMSMDDWPEMKKKFADVFAKKTAEWCQIFDGTDACVTPVLTF
EEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIPSFKRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIES
NKVKASL

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FIGURE 1570

TCTTTCTGGTCTCGGCCGCAGAAGCGAGATGACGAAGGGAACGTCATCGTTTGGAAAGCGTCGCAATAAGACGCA
CACGTTGTGCCCGCCGCTGTGGCTCTAAGGCCTACCACCTTCAGAAGTCGACCTGTGGCAAATGTGGCTACCCTGC
CAAGCGCAAGAGAAAAGTATAACTGGAGTGCCAAGGCTAAAAGACGAAATACCACCGGAAGTGGTCGAATGAGGCA
CCTAAAAATTGTATACCGCAGATTCAGGCATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGT
TGCAGCATCCAGTTCATCTTAAGAATGTCAACGATTAGTCATGCAATAAATGTTCTGGTTTTAAAAAATAC

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FIGURE 1571

MTKGTSSF GKRRNKTHLCRRCGSKAYHLQKSTCGKCGYPAKRKRKYNWSAKAKRRNTTGTGRMRHLKIVYRRFR
HGFREGTTPKPKRAAVAASSSS

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FIGURE 1572

GTGTCTGTGGGAGGTTATGTTTATTTGAGACTTCTCCATCGGGATCGCCTGGTGTACCAAGTGTCCTACTGGTAC
TGAGGTTTGCTGCCTGCCTTCTTGCCATGTCTAACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCCGACCAAC
AGGCCGCACCAAAAGCACCCTCAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTCTTAGCAA
GGTTCAAAGGCGATGGTGTAATAATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAAGAGGGGATA
AAATGAGCCAAGACTCTATGATGAACTAAAGGGAATGGCGGCAGCTGGTTCGGTCTCAGGGACAACACAAACAAA
GGATCTGGGTCAACATTTCCCTTTCTGGGATAAAAAATAATTGATGAGAAAAGTGGGGTAATAGAGCATGAACATC
CAGTAAATAAGATTTCTTTTATTGCCCCGTGATGTGACAGACAACCGGGCATTGTTTACGTGTGTGGAGGAGAAG
GCCAGCATCAGTTTTTTGCCATAAAAAACCGGGCAACAGGCTGAACCATTAGTTGTTGATCTTAAAGACCTTTTTT
AAGTTATCTATAATGTAAAGAAAAAGGAAGAAGAAAAAGATAAGAGGAAGCCAGCAAAGCAGTTGAGAATG
GGAGTGAGGCCCTAATGATTCTAGATGACCAAACTAACAACTGAAATCGGGTGTGACCAAGATGGATTGTTTG
GGGACATGTCTACACCTCTGACCTAAATAGTCCAACAGAAAGCAAAGATATCCTGTAGTGGATCTAAACTCTG
AAATCGACACCAATCAGAATCTTTAAGAGAAAAATCCATTCTTAACAAACGGCATCACCTCTGTTCTCTTCTC
GACCAACGCCTCAGGCATCCTTCTTGCCCTGAAAATGCCTTTTTCTGCCAATCTCAACTTCTTTCCACCCCTAATC
CTGATCCTTTCCGTGACGATCCTTTTACACAGCCAGACCAATCGACACCTTCTTCGTTTGATTCTCTCAAATCTC
CAGATCAGAAGAAAGAGAATTCGAGTAGCTCGTCTACTCCGCTGAGTAATGGGCCCTGAATGGTGATGTTGACT
ACTTTGGTCAGCAATTTGACCAGATCTCTAACCGGACTGGCAAACAGGAAGCTCAGGCAGGCCCATGGCCCTTTT
CAAGTTCGCAAACCCAGCCAGCAGTGAGAACTCAAAATGGGGTATCTGAAAGAGAACAGAACGGCTTCTCTGTCA
AATCCTCCCCGAACCTTTTGTGGGAAGCCCTCCCAAAGGACTGTCCATACAGAATGGCGTAAAGCAGGACTTGG
AAAGCTCTGTCCAGTCTCACCACATGACTCCATAGCCATTATCCACCTCCACAAAGTACCAAACAGGAAGAG
GCAGAAGGACTGCTAAGTCTTCAGCCAATGACTTGCTTGATCAGACATCTTTGCTCCTCCCGTCTCAGAACCTT
CAGGCCAGGCGTCACCCACAGGACAACCTACAGCCCTGCAGCCCAACCTCTGGATCTCTTCAAACAAGTGCTC
CTGCCCCAGTGGGGCCCCCTGGTGGGTCTAGGTAGGTGTAAGTGTACACTCCCTCAGGCAGGACCATGGAACACA
GCATCTTTGGTCTTCAATCAGTCCCCCTTCAATGGCTCCGGGAGCCATGATGGGTGGTCAACCTTCAGGTTTTAGT
CAGCCCGTCATTTTTTGGTACAAGTCCAGCTGTTTCAGGTGGAACAGCCTTCACCCTTTGCAGCCTCAACTCCC
CCTCCAGTGCCTGTTGTCTGGGGCCCTTCTGCATCTGTGGCACCCAATGCTTGGTCAACAACAAGCCCTTTGGGG
AATCCTTTTCAGAGCAATATTTTTCCAGCTCCTGTGTGTTCCACTCAGCCCCATCCATGCACTCCTCTCTCCTG
GTCACCTCCTCAGCCACCTCCCAGAGCTGGCCCTCCCAAGGACATCTCCAGTGATGCCTTCACTGCCTTAGAC
CCACTTGGGGATAAAGAGATCAAGGATGTGAAAGAAATGTTTAAGGATTTCCTAAGTGCAGGCGAGCCACCTGCTGTG
CCCGCGCGGAAGGGAGAGCAGACTTCTTCTGGGACTTTGAGTGCCCTTGCCAGTTATTTCAACAGCAAGGTTGGC
ATTCTCAGGAGAATGCAGACCATGATGACTTTGATGCTAATCAACTATTGAACAAGATCAATGAACCACCAAAG
CCAGCTCCCAGACAAGTTTCCCTGCCAGTTACCAAATCTACTGACAATGCATTTGAGAACCCTTTCTTTAAAGAT
TCTTTTGGTTCATCACAAGCCTCTGTGGCTTCTTCTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTGGA
AATCCTTTTGCCTAAATTCTGAACCTGGTCTGCAGACCATCCAGAGGAATAAAAAGGTTGGCCTTAGTAGTCAAA
AACAAAGCTGATAGCCAGACAGTCTGATTTCTGCCCTTGTTCCAGCTTTGACGTATTATCTGTTGCCTTATTT
CTCATTGCCTCTTCTACTTGTAATAATGCTTTTCACTTTCTGTCTAGGTAAAGCTAAACTGAATCTATGGCTTTA
AATAAATTAAGATCCTAAACTCTTAGCTTAAGTGAAATGAAGTACAGTAGTTTCCCTACTGAACCCTGCCTCT
TGTGTCCCTGGAACCTTCTAGAACACCTGCCTTCTACCCTCTGGTTGGGAGATGCAGCCACCACATCCCTTCATA
TCATACTGTTTGAATAAATTTTCAAATCCTTATTGTTTCAGAGTTGTTTGGGGTTCTGTTTCAGAGCATAAAAC
CTAAAGGTTATAGTAGAACAAGGCACCTTCTTAAAGAAATCTTGCTTCAGACCATCAGTTACAGAGAATTTCTA
AAGTAAATTAAGCAACTACAACCTTCTCCTTAGACACTTTGGAATCTAACCCTTAAGGACCTTTTTAAAGAGA
TAGCTTCTCTTCTTCTGAAGATCAATTTCTCCAAGGCCAAGATTGTCCTTTTCTCCATTTCTTGCTAGCTAT
TGCAATGAGGGAAGAACATTATTCATCTCTCCTCCCCTTTTTTTCTGATTCTTTTTTCAGTCAGTTTTGCTCC
TGGGTTCAAGTAGTATTACCACCTTTTCAAGCAACAGACTCTCACAGGGC

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FIGURE 1573

TAGGATGGAAAGGCAGATGTAAAGTCCCTCATGGCGAAATATAACACGGGGGGCAACCCGACAGAGGATGTCTCA
GTCAATAGCCGACCCCTTCAGAGTCACAGGGCCAAACTCATCTTCAGGAATACAAGCAAGAAAGAACTTATTCAAC
AACCAAGGAAATGCCAGCCCTCCTGCAGGACCCAGCAATGTACCTAAGTTTGGGTCCCCAAAGCCACCTGTGGCA
GTCAAACCTTCTTCTGAGGAAAAGCCTGACAAGGAACCCAAGCCCCGTTTCTAAAGCCCCTGGAGCAGGGCCAA
AGATTGGAACACCAGCCAGCTTGACCACCAGAGACCCGAGGCGAAAGTGGGATTCTGAAACCTGTAGGCCCC
AAGCCCATCAACTTGCCCAAAGAAGATTCCAAACCTACATTTCCCTGGCCTCCTGGAAACAAGCCATCTCTTCAC
AGTGTAACCAAGACCATGACTTAAAGCCACTAGGCCCGAAATCTGGGCCTACTCCTCCAACCTCAGAAAATGAA
CAGAAGCAAGCGTTTCCCAAATTGACTGGGGTTAAAGGGAAATTTATGTCAGCATCACAAGATCTTGAACCCAAG
CCCCCTTTCCCCAAACCCGCCCTTTGGCCAGAAGCCGCCCTAAGTACCGAGAACTCCCATGAAGACGAAAGCCCC
ATGAAGAATGTGTCTTCATCAAAAGGGTCCCCAGCTCCCTGGGAGTCAGGTCCAAAAGCGGCCCTTTAAACCA
GCAAGGGAAGACTCAGAAAATAAGACCATGCAGGGGAGATTTCAAGTTTGCCCTTTCTGGAGTGGTTTTGAAA
CCTGCTGCGAGCAGGGGAGGCCTAGGTCTCTCCAAAAATGGTGAAGAAAAAAGGAAGATAGGAAGATAGATGCT
GCTAAGAACACCTTCCAGAGCAAAATAAATCAGGAAGAGTTGGCCTCAGGGACTCCTCCTGCCAGGTTCCCTAAG
GCCCCTTCTAAGCTGACAGTGGGGGGGCCATGGGGCCAAAGTCAGGAAAAGGAAAAGGGAGACAAGAAATTCAGCC
ACCCCGAAACAGAAGCCATTGCCTCCCTTGTTTACCTTGGGTCCACCTCCACCAAAACCAACAGACCACCAAT
GTTGACCTGACGAAATTCCACAAAACCTCTTCTGGAAACAGTACTAGCAAAGGCCAGACGTCTTACTCAACAAC
TCCCTGCCACCACCTCCACCATCCCATCCGGCCAGCCAACCACCATTGCCAGCATCTCACCCATCACAACCACCA
GTCCCAAGCCTACCTCCCAGAAACATTAAACCTCCGTTTGACCTAAAAAGCCCTGTCAATGAAGACAATCAAGAT
GGTGTACGCACTCTGATGGTGCTGGAAATCTAGATGAGGAACAAGACAGTGAAGGAGAAACATATGAAGACATA
GAAGCATCCAAAGAAAGAGAGAAGAAAAGGGAAAAGGAAGAAAAGAGAGTTAGAGCTGGAGAAAAAGGAACAG
AAAGAGAAAGAAAAGAAACAAGAAATAAAGAAGAAATTTAACTAACAGGCCCTATTCAAGTCATCCATCTT
GCAAAAGCTTGTTGTGATGTCAAAGGAGGAAAGAATGAAGTGAAGCTTCAAGCAAGGAGAGCAAAATTGAAATCATC
CGCATCACAGACAACCCAGAAGGAAAATGGTTGGGCAGAACAGCAAGGGGTTTCATATGGCTATATTAAACAAC
GCTGTAGAGATTGACTATGATTCTTTGAAACTGAAAAAGACTCTCTTGGTGCCCTTCAAGACCTATTGAAGAT
GACCAAGAAGTATATGATGATGTTGCAGAGCAGGATGATATTAGCAGCCACAGTCAGAGTGAAGTGGAGGGATA
TTCCCTCCACCACCAGATGATGACATTTATGATGGGATTGAAGAGGAAGATGCTGATGATGGTTTCCCTGCTCCT
CCTAAACAATTGGACATGGGAGATGAAGTTTACGATGATGTGGATACCTCTGATTTCCCTGTTTCATCAGCAGAG
ATGAGTCAAGGAACTAATTTTGGAAAAGCTAAGACAGAAGAAAAGGACCTTAAGAAGCTAAAAAGCAGGAAAAA
GAAGAAAAAGACTTCAGGAAAAAATTTAAATATGATGGTGAATTTAGAGTCCTATATTCACTAAAGTTACAAC
TCCATAACTTCTAAAAAGTGGGGAACCAAGAGATCTACAGGTAAAACCTGGTGAATCTCTAGAAGTTATACAAACC
ACAGATGACACAAAAGTTCTCTGCAGAAATGAAGAAGGGAAATATGGTTATGTCCTTCGGAGTTACCTAGCGGAC
AATGATGGAGAGATCTATGATGATATTGCTGATGGCTGCATCTATGACAATGACTAGCACTCAACTTTGGTCATT

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FIGURE 1574

MAKYNTGGNPTEDVSVNSRPFRVTGPNSSSGIQARKNLFNNQGNASPPAGPSNVPKFGSPKPPVAVKPSSEEKPD
KEPKPPFLKPTGAGQRFGTPASLTTRDPEAKVGFLKPVGPKPINLPKEDSKPTFPWPPGNKPSLHSVNDHDLKP
LGPKSGPTTPPTSENEQKQAFPKLTGVKGKFMSASQDLEPKPLFPKPAFGQKPPLSTENSHEDESPMKNVSSSKGS
PAPLGVRSGSGLKPA REDSENKD HAGEISSLPFFGVVLKPAASRGGLGLSKNGEEKKEDRKIDAAKNTFQSKIN
QEELASGTTPPARFPKAPSKLTVGGPWGQSQEKEKGDKNSATPKQKPLPPLFTLGPPPPKPNRPPNVDLTKFHKTS
SGNSTSKGQTSYSTTSLPPPPPSHPASQPPLPASHPSQPPVPSLPPRNIKPPFDLKSPVNEDNQDGVTHSDGAGN
LDEEQDSEGETYEDIEASKEREKKREKEEKKRLELEKKEQKEKEKKEQEIKKKFKLTGPIQVIHLAKACCDVKGG
KNELSFKQGEQIEIIRITDNPEGKWLGR TARGSYGYIKTTAVEIDYDSLKLKDSL GAPSRPIEDDQEVYDDVAE
QDDISSHSQSGSGGIFPPPPDDDIYDGIEEEDADDGFPAPPKQLDMGDEVYDDVDTSDFPVSSAEMSQGTNFGKA
KTEEKDLKKLKKQEKEEKDFRKKFKYDGEIRVLYSTKVTTITSKKWGTRDLQVKPGESLEVIQTDDTKVLCRN
EEGKYGYVLRSYLADNDGEIYDDIADGCIYDND

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FIGURE 1575

[illegible]

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FIGURE 1576

MERSGPSEVTGSDASGPDQLAVTMGFTGFGKKARTFDLEAMFEQTRRTAVERSRTLEAREKEEEMNREKELRR
QNEDIEPTSSRSNVVRDCSKSSSRDTSSSESEQSSDSSDELIGPPLPPKMVGKPVNFMEEDILGPLPPPLNEEE
EEAEEEEEEEEENPVHKIPDSHEITLKHGKTIVSALGLDPSGARLVTTGGYDYDVKFWDFAQMDASFKAFRSLQ
PCECHQIKSLQYSNTGDMILVVSGSSQAKVIDRDGFVMECIKGDQYIVDMANTKGHTAMLHTGSWHPKIKGEFM
TCSNDATVRTWEVENPKKQKSVFKPRTMQGKKVIPTTCTYSRDGNLIAAACQNGSIQIWDRNLTVHPKFHYKQAH
DSGTDTSCTVTSYDGNVLASRGDDSLKLWDIRQFNKPLFSASGLPTMFPMTDCCFSPDDKLIVTGTSIQRGCGS
GKLVFFERRTFQRYEIDITDASVVRCLWHPKLNQIMVGTGNGLAKVYYDPNKSQRGAKLCVVKTQRKAKQAETL
TQDYIITPHALPMFREPRQRSTRKQLEKDRLDPLKSHKPEPPVAGPGRGGRVGTGGTLSSYIVKNIALDKTDDS
NPREALRHAKAAEDSPYWVSPAYSKTQPKTMFAQVESDDEEAKNEPEWKKRKI

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FIGURE 1577

CGGGCTGTAGAGCCTTGCGCGCGCAGTGGGGATGGAACGTTGCTAGGCTTAGCGGGTCTGGCTGCTGGGGGCCCCG
AGCAGCACGCTCGGAGCCGCCGCGGCCAAAGCGGGAATCTGGGAGGCGAGCAGCTCTGCAGTTAATGCACGTAT
TTTAAACTCCCCGGGCCTGCGGACGCTATGCACAGGAAGCACCTCCAGGAGATTCCAGACCTGAGTAGCAACGTTG
CCACCAGCTTCACGTGGGGATGGGATTCCAGCAAGACTTCTGAACTGCTGTCAGGCATGGGGGTCTCCGCCCTGG
AGAAAGAGGAGCCCGACAGTGAGAACATCCCCAGGAAGTGTCTCAAACCTGGGCCACCCGGAGAGCCCCCCAC
GGAAACGGCTGAAGAGCAAAGGGAGTGACAAAGACTTTGTGATTGTCCGCAGGCCTAAGCTAAATCGAGAGAACT
TTCCAGGTGTTTCATGGGACTCCCTTCCGGATGAGCTGCTCTTGGGAATCTTTTCTGTCTGTGCCTCCCTGAGC
TGCTAAAGGTCTCTGGTGTGTTGTAAGAGGTGGTATCGCCTAGCGTCTGATGAGTCTCTATGGCAGACCTTAGACC
TCACAGGTAAAAATCTGCACCCGGATGTGACTGGTCGGTTGCTGTCTCAAGGGGTGATTGCCTTCCGCTGCCCAC
GATCATTTATGGACCAACCATTTGGCTGAACATTTTCAGCCCTTTTCGTGTACAGCACATGGACCTATCGAACTCAG
TTATAGAAGTGTCCACCCTCCACGGCATACTGTCTCAGTGTTCCAAGTTGCAGAATCTAAGCCTGGAAGGCCTGC
GGCTTTTCGGATCCCATTGTCAATACTCTCGCAAAAACTCAAATTTAGTGCGACTTAACCTTTCTGGGTGTTCTG
GATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCTGAACCTCTCCTGGTGTG
TTGATTTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTCAGAGACCATCACCCAGCTGAATCTTAGCG
GCTACAGAAAGAATCTCCAGAAATCAGATCTCTCTACTTTAGTTAGAAGATGCCCCAATCTTGTCCATCTAGACT
TAAGTGATAGTGTGCTGCTAAAGAATGACTGCTTTTCAGGAATTTTTCCAGCTCAACTACCTCCAACACCTATCAC
TCAGTCGGTGCTATGATATAATACCTGAAACTTTACTATTAGTGACAAGAGCTGGGGTTAGGATCCGGTTGGACT
CTGACATCGGATGCCCTCAAACATACAGAACTTCCAAACTCAAGTCCAGCCATAAGCTATTTTGCCAACATGTCA
GAGTAATCTGTATTTTTGTATGTGATTTCTACTTTTATAGACTTGTTTTAAAACAAATAAACACATTTTTATAAA
AATGAGTGCTTAAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1578

MHRKHLQEIPDLSSNVATSFTWGWDSSTSELLSGMGVSALEKEEPPDSENIPQELLSNLGHPESP
PRKRLKSKGS
DKDFVIVRRPKLNRENFPGVSWDLPDELLLGIFSCCLPELLKVSGVCKRWYRLASDESLWQT
DLTGKNLHPD
VTGRLLSQGVIAFRCPRSFMDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNL
SLEGLRLSDPIVNT
LAKNSNLVRLNLSGCSGFSEFALQTLSSCSRLDELNLSWCFDFTEKHVQVAVAHVSETITQ
LNLSGYRKNLQKS
DLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLLVTRAGV
RIRLDSDIGCPQTY
RTSKLKSSHKLFQHV RVICIFVCDFFYRLVLKQ

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FIGURE 1579

GAATTCGGGCTGTAGAGCCTTGCGCGCGCAGTGGGGATGGAACGTTGCTAGGCTTAGCGGGTCTGGCTGCTGGG
GGCCCGAGCAGCACGCTCGGAGCCGCCGCGGCCAAAGCGGGAATCTGGGAGGCGAGCAGCTCTGCAGTTAATGC
ACGTATTTTAAACTCCCGGGCCTGCGGACGCTATGCACAGGAAGCACCTCCAGGAGATTCCAGACCTGAGTAGCA
ACGTTGCCACCAGCTTCACGTGGGGATGGGATTCCAGCAAGACTTCTGAACTGCTGTCAGGCATGGGGGTCTCCG
CCCTGGAGAAAGAGGAGCCCCGACAGTGAGAACATCCCCAGGAAGTCTCTCAAACCTGGGCCACCCGGAGAGCC
CCCCACGGAACGGCTGAAGAGCAAAGGGAGTGACAAAGACTTTGTGATTGTCCGCAGGCCTAAGCTAAATCGAG
AGAACTTTCCAGGTGTTTCATGGGACTCCCTTCCGGATGAGCTGCTCTTGGGAATCTTTTCTGTCTGTGCCTCC
CTGAGCTGCTAAAGGTCTCTGGTGTTTGTAAAGAGGTGGTATCGCCTAGCGTCTGATGAGTCTCTATGGCAGACCT
TAGACCTCACAGGTAAAAATCTGCACCCGGATGTGACTGGTCGGTTGCTGTCTCAAGGGGTGATTGCCTTCCGCT
GCCCACGATCATTATATGGACCAACCATTGGCTGAACATTTTCAGCCCTTTTCGTGTACAGCACATGGACCTATCGA
ACTCAGTTATAGAAGTGTCACCCCTCCACGGCATACTGTCTCAGTGTTCCAAGTTGCAGAACTCTAAGCCTGGAAG
GCCTGCGGCTTTTCGGATCCCATTTGTCAATACTCTCGCAAAAACTCAAATTTAGTGCGACTTAACCTTTCTGGGT
GTTCTGGATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCTGAACCTCTCCT
GGTGTTTTGATTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTCAGAGACCATCACCCAGCTGAATC
TTAGCGGCTACAGAAAGAATCTCCAGAAATCAGATCTCTCTACTTTAGTTAGAAGATGCCCCAATCTTGTCCATC
TAGACTTAAGTGATAGTGTCATGCTAAAGAATGACTGCTTTTCAGGAATTTTCCAGCTCAACTACCTCCAACACC
TATCACTCAGTCGGTGCTATGATATAATACCTGAACTTTACTTGAAGTTGGAGAAATCCCACACTAAAAACAC
TACAAGTTTTTGGAATCGTGCCAGATGGTACCCTTCAACTGTTAAAGGAAGCCCTTCCTCATCTACAGATTAATT
GCTCCCATTTACCACCATTGCCAGGCCAACTATTGGCAACAAAAAGAACAGGAGATATGGGGCATCAAATGCC
GACTGACACTGCAAAAGCCCAGTTGTCTATGAAGTATTTATTGCAGGATGGTGTCTCTTCTTTAGAACAGGGAAA
ATAGGCAGGAAGCCCAATTGCTGGAGTACTTAGCTAGTTTTATTCTTGGTTTTCCCTTTGCCTTCATTCTGCAAG
TATACTAGGGAGCCATTTGAGAGGG

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FIGURE 1580

MHRKHLQEIPDLSSNVATSFTWGWDSSTSELLSGMGVSALEKEEPPDSENIPQELLSNLGHPESP
PRKRLKSKGS
DKDFVIVRRPKLNRENFPGVSWDSLPEDELLGIFSCCLPELLKVSGVCKRWYRLASDESLWQTL
DLTGKNLHPD
VTGRLLSQGVIAFRCPRSFMDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNL
SLEGLRLSDPIVNT
LAKNSNLVRLNLSGCSGFSEFALQTLSSCSRDELNLSWCFDFTEKHVQVAVAHVSETITQNL
SGYRKNLQKS
DLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLELGEIPT
LKTQVFGIVPDGT
LQLLKEALPHLQINCSHFTTIARPTIGNKKNQEIWGIKCRLLQKPSCL

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FIGURE 1581A

ATTCTTCTAAGGAGCCTAAATTCACCAAGTGCCGTTACCTGAGCGAGAGACTTTTTTCATGCCACTGGACAGATG
AGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATACCAGAAGGAACACTCAAGAATGGACTC
AAGAATGGAAAGAATGCCCTGATTATGTTTCTGCTGGGGAACAGCTGTTACTTTAATTCATCGTTTACCTCCA
TCTGGATACCTTATTGTATCAAGCTAACTAGCAATGGTGGTACAGTGGATGAAAAGTGTCTCTGTTGATGAAA
TAGTGCAACCAGATCCACCCATTGCCCTCACTGGACTTTACTGAACGTCAGTTTAACTGGGATTTCATGCAGATA
TCCAAGTGAGATGGGAAGCACCACGCAATGCAGATATTAGAAAGGATGGATGGTTCTGGAGTATGAACTTCAAT
ACAAAGAAGTAAATGAACTAAATGGAAATGATGGACCCTATATTGACAACATCAGTTCCAGTGTACTCATTGA
AAGTGGATAAGGAATATGAAGTGCCTGTGAGATCCAAACAACGAAACTCTGGAAATTATGGCGAGTTCAGTGAGG
TGCTCTATGTAACACTTCCTCAGATGAGCCAATTTACATGTGAAGAAGATTTCTACTTTCCATGGCTCTTAATTA
TTATCTTTGGAATATTTGGGCTAACAGTGATGCTATTTGTATTCTTATTTTCTAAACAGCAAAGGATTAATATGC
TGATTCTGCCCCAGTTCCAGTTCCAAAGATTAAAGGAATCGATCCAGATCTCCTCAAGGAAGGAAAATTAGAGG
AGGTGAACACAATCTTAGCCATTTCATGATAGCTATAAACCCTGAATTCACAGTGATGACTCTTGGGTTGAATTTA
TTGAGCTAGATATTGATGAGCCAGATGAAAAGACTGAGGAATCAGACACAGACAGACTTCTAAGCAGTGACCATG
AGAAATCACATAGTAACCTAGGGGTGAAGGATGGCGACTCTGGACGTACCAGCTGTTGTGAACCTGACATTCTGG
AGACTGATTTCAATGCCAATGACATACATGAGGGTACCTCAGAGGTTGCTCAGCCACAGAGGTTAAAGGGGAAG
CAGATCTCTTATGCCTTGACCAGAAGAAATCAAATAAATCACCCTTATCATGATGCTTGCCCTGCTACTCAGCAGC
CCAGTGTTATCCAAGCAGAGAAAAACAAACCACAACCACTTCTACTGAAGGAGCTGAGTCAACTCACCAAGCTG
CCCATATTCAGCTAAGCAATCCAAGTTCAGTGTCAAACATCGACTTTTATGCCAGGTGAGCGACATTACACCAG
CAGGTAGTGTGGTCTTTTCCCCGGGCCAAAAGAATAAGGCAGGGATGTCCCAATGTGACATGCACCCGGAAATGG
TCTCACTCTGCCAAGAAAACCTCTTATGGACAATGCCTACTTCTGTGAGGCAGATGCCAAAAAGTGCCTCCCTG
TGGCTCCTCACATCAAGGTTGAATCACACATACAGCCAAGCTTAAACCAAGAGGACATTTACATCACCACAGAAA
GCCTTACCCTGCTGCTGGGAGGCCTGGGACAGGAGAACATGTTCCAGGTTCTGAGATGCCTGTCCAGACTATA
CCTCCATTTCATATAGTACAGTCCCCACAGGGCCTCATACTCAATGCGACTGCCTTGCCCTTGCTGACAAAGAGT
TTCTCTCATCATGTGGCTATGTGAGCACAGACCAACTGAACAAAATCATGCCTTAGCCTTTCTTTGGTTTCCCAA
GAGCTACGTATTTAATAGCAAAGAATTGACTGGGGCAATAACGTTTAAAGCCAAAACAATGTTTAAACCTTTTTTG
GGGAGTGACAGGATGGGGTATGGATTCTAAAATGCCTTTTCCAAAATGTTGAAATATGATGTTAAAAAATAA
GAAGAATGCTTAATCAGATAGATATTCCTATTGTGCAATGTAAATATTTTAAAGAATTGTGTCAGACTGTTTAGT
AGCAGTGATTGTCTTAATATTGTGGGTGTTAATTTTTGATACTAAGCATTGAATGACTATGTTTTAATGTATAG
TAAATCACGCTTTTTGAAAAAGCGAAAAATCAGGTGGCTTTTGGCGTTTCAGGAAAATTGAATGCAACCATAGC
ACAGGCTAATTTTTTGTGTTTCTTAAATAAGAACTTTTTTATTTAAAAAACTAAAAACTAGAGGTGAGAAATT
TAACTATAAGCAAGAAGGCAAAAAATAGTTTGGATATGTAAACATTTATTTTACATAAAGTTGATAAAGATAT
TTTTAATAATTTAGACTTCAAGCATGGCTATTTTATATTACACTACACACTGTGTACTGCAGTTGGTATGACCCC
TCTAAGGAGTGTAGCAACTACAGTCTAAAGCTGGTTAATGTTTTGGCCAATGCACCTAAAGAAAAACAACCTCG
TTTTTTACAAAGCCCTTTTATACCTCCCCAGACTCCTTCAACAATTCTAAAATGATTGTAGTAATCTGCATTATT
GGAATATAATTGTTTTATCTGAATTTTTTAAACAAGTATTTGTTAATTTAGAAAACCTTAAAGCGTTTGCACAGAT
CAACTTACCAGGCACCAAAAAGAAGTAAAAGCAAAAAAGAAAACCTTTCTTCACCAAATCTTGGTTGATGCCAAAA
AAAAATACATGCTAAGAGAAGTAGAAATCATAGCTGGTTCACACTGACCAAGATACTTAAGTGTGCAATTGCAC
GCGGAGTGAGTTTTTTAGTGCGTGAGATGGTGAGAGATAAGATCTATAGCCTCTGCAGCGGAATCTGTTTCACAC
CCAATTGGTTTTTGCTACATAATTATCCAGGAAGGGAATAAGGTACAAGAAGCATTGTGTAAGTTGAAGCAAAATC
GAATGAAATTAAGTGGGTAATGAAACAAAGAGTTCAAGAAATAAGTTTTTGTTCACAGCCTATAACCAGACACA
TACTCATTTTTTCATGATAATGAACAGACATAGACAGAAGAAACAAGTTTTTCACTAGTCCCCACAGATAACTGAAAA
TTATTTAAACCGCTAAAAGAACTTTCTTTCTCACTAAATCTTTTATAGGATTTATTTAAATAGCAAAAAGAAGA
AGTTTCATCATTTTTTACTTCTCTGAGTGGACTGGCTCAAAGCAAGCATTGAGAAGAAAAAGAAGCAACCT
CAGTAATTTAGAAATCATTTTGAATCCCTTAATATCCTAAACATCATTCATTTTTGTGTTGTTGTTGTTGAGA
CAGAGTCTCGCTCTGTGCGCAGGCTAGAGTGCAGTGGCGCGATCTTGACTCACTGCAATCTCCACCTCCACAGG
TTCAGGCGATTCCCGTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCACGCACCACCATGCCAGGCTAATTTT
TTTGTATTTTAGCAGAGACGGGGTTTACCATGTTGGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCC
GACTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACCGTGCCAGCCCTAAACATCATTCTTGAGAGCA

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FIGURE 1581B

TTGGGATATCTCCTGAAAAGGTTTATGAAAAAGAAGAATCTCATCTCAGTGAAGAATACTTCTCATTTTTTAAAA
AAGCTTAAACCTTTGAAGTTAGCTTTAACTTAAATAGTATTTCCCATTTATCGCAGACCTTTTTTAGGAAGCAAG
CTTAATGGCTGATAATTTTAAATTCCTCTCTCTTGCAGGAAGGACTATGAAAAGCTAGAATTGAGTGTTTAAAGTT
CAACATGTTATTTGTAATAGATGTTTGATAGATTTTCTGCTACTTTGCTGCTATGGTTTTCTCCAAGAGCTACAT
AATTTAGTTTCATATAAAAGTATCATCAGTGTAGAACCTAATTCAATTCAAAGCTGTGTGTTTGGAAGACTATCTT
ACTATTTTACAACAGCCTGACAACATTTCTATAGCCAAAAATAGCTAAATACCTCAATCAGTCTCAGAATGTCAT
TTTGGTACTTTGGTGGCCACATAAGCCATTATTCAGTAGTATGACTAGTTGTGTCTGGCAGTTTATATTTAACTC
TCTTTATGTCTGTGGATTTTTTCCTTCAAAGTTTAATAAATTTATTTTCTTGGATTCTGATAGTGTGCTTCTGT
TATCAAACACCAACATAAAAAATGATCTAAACC

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FIGURE 1582

CCTTCACACAGCTCTTTCACCATGCCTGGATCACTTCCTTTGAATGCAGAAGCTTGCTGGCCAAAAGATGTTGGG
ATTGTTGCCCTTGAGATCTATTTTCCTTCTCAATATGTTGATCAAGCAGAGTTGGAAAAATATGATGGTGTAGAT
GCTGGGAAGTATACCATTTGGCTTGGGCCAGGCCAAGATGGGCTTCTGCACAGATAGAGAAGATATTAACCTCTCTT
TGCATGACTGTGGTTTCAAGATCTTATGGAGAGAAATAACCTTTTCTATGATTGCATTGGGCGGCTGGAAGTTGGA
ACAGAGACAATCATCGACAAATCAAAGTCTGTGAAGACTAATTTGATGCAGCTGTTTGAAGAGTCTGGGAATACA
GATATAGAAGGAATCGACACAATAATGCATGCTATGGAGGCACAGCTGCTGTCTTCAATGCTGTTAACCTGGATT
GAGTCCAGCTCTTGGGATGGACGGTATGCCCTGGTAGTTGCAGGAGATATTGCTGTATATGCCACAGGAAATGCT
AGACCTACAGGTGGAGTTGGAGCAGTAGCTCTGCTAATTGGGCCAAAATGCTCCTTTAATTTTTGAACGAGGGCTT
CGTGGGACACATATGCAACATGCCTATGATTTTTACAAGCCTGATATGCTATCTGAATATCCTATAGTAGATGGG
AACTCTCCATACAGTGCTACCTCAGTGCATTAGACCGCTGCTATTCTGTCTACTGCAAAAAGATCCATGCCAG
TGGCAGAAAAGAGGGAAATGATAAAGATTTTACCTTGAATGATTTTGGCTTCATGATCTTTCACCTACCATATTGT
AACTGGTTTCAAGAAATCTCTAGCTCGGATGTTGCTGAATGACTTCCTTAATGACCAGAATAGAGATAAAAATAGT
ATCTATAGTGGCCTGGAAGCCTTTGGGGATGTTAAATTAGAAGACACCTACTTTGATAGAGATGTGGAGAAGGCA
TTTATGAAGGCTAGCTCTGAACTCTTCAGTCAGAAAACAAAGGCATCTTACTTGTATCAAATCAAATGGAAAT
ATGTACACATCTTCAGTATATGGTTCCCTTGCATCTGTTCTAGCACAGTACTCACCTCAGCAATTAGCAGGGAAG
AGAATTGGAGTGTCTTCTTATGGTTCTGGTTTGGCTGCCACTCTGTACTCTCTTAAAGTCACACAAGATGCTACA
CCGGGGTCTGCTCTTGATAAAATAACAGCAAGTTTATGTGATCTTAAATCAAGGCTTGATTCAAGAACTGGTGTG
GCACCAGATGTCTTCGCTGAAAACATGAAGCTCAGAGAGGACACCCATCATTGGTCAACTATATCCCCAGGGT
TCAATAGATTCACTCTTTGAAGGAACGTGGTACTTAGTTAGGGTGGATGAAAAGCACAGAAGAACTTACGCTCGG
CGTCCCCTCCAAATGATGACACTTTGGATGAAGGAGTAGGACTTGTGCATTCAAACATAGCAACTGAGCATATT
CCAAGCCCTGCCAAGAAAGTACCAAGACTCCCTGCCACAGCAGCAGAACCTGAAGCAGCTGTCATTAGTAATGGG
GAACATTAAAGATACTCTGTGAGGTGCAAGACTTCAGGGTGGGGTGGGCATGGGGTGGGGGTATGGGAACAGTTGG

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FIGURE 1583

MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAGKYTIGLGQAKMGFCTDREDINSLCMTVVQN
LMERNNLSYDCIGRLEVGTETIIDKSKSVKTNLMQLFEESGNTDIEGIDTTNACYGGTAAVFNAVNWIESSWDG
RYALVVAGDIAVYATGNARPTGGVGAVALLIGPNAPLIFERGLRGTHMQHAYDFYKPDMLSEYPIVDGKLSIQCY
LSALDRCYSVYCKKIHAQWQKEGNDKDFTLNDFGFMIFHSPYCKLVQKSLARMLLNDFLNDQNRDKNSIYSGLEA
FGDVKLEDTYFDRDVEKAFMKASSELFQKTKASLLVSNQNGNMYTSSVYGSLASVLAQYSPQQLAGKRIGVFSY
GSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTGVAPDVFAENMKLREDTHHLVNYIPQGSIDSLFE
GTWYLVVRVDEKHRRTYARRPTPNDDTLDEGVGLVHSNIATEHIPSPAKKVPRLPATAAEPEAAVISNGEH

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FIGURE 1584

CAATGGGTTTGGCCACCAGAACACAGGTGTTGTGAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCA
TATCAACATTGTCGTCATTGGACACGTAAATTCGGGCAAGTCCACCACTACTGGCCATCTGACCTACAAATGTGG
TGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGACTCCTTCAAGTATGC
CTGGGTCTTGCATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGAC
CAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACTCAGAGACTTCATCAAAAACATGATTACAGGGACATC
TCAGGCTGTGCTGTCCTGATGGTTGCTGCTGGTGTGGCGAATTTGAAACTGGTATCTCCAAGAATGGGCAGACC
TGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTAAACAAAATGGATTCCACT
GAGCCACCCTACAGCCAGAAGAGAGAAGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGTTAC
AACCCTGACACAGTAGCATTGTGTCGAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCGAGTGCTAACATG
CCTTGGCTCAAGGGATGGAAAGCCACCCGTAAGGATGGCAGTGCCAGCGGCACCATGCTGCTTGAGGCTCTGGAC
TGCATCCTACCACCAACTCATCCAAGCTGACAAGCCCTTGCGCCTGCCCTCTCCAGGATGTCTACAAAATTGGTGGT
ATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGTGTGGTGGTCACCTTTGCTCCAGTC
AACATTACAACAGAAGTAAATCTGTGCAAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATGTG
GGCTTCAATGTCAAGAATGTGCTGTGCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACCCA
CCAATGGAAACAGCTGACTTCATTGCTCAGGTAATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCC
CCTATATTGGATTGCCACGCGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCGTTCT
GGTAAAAAGCTGGAAGATGGCCCTAAATTCCTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAG
CCCATTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCATTTTGCTGTTTCGTGATATGAGACAGACAGTTGCG
GTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGGTGGCAAGGTCACGAAGTCTGCCCAGACAGCTCAG
AAGGCTAAATGAATATTATCCCTAATACCTGCCACCCAACCTCTTAATCAGTGGTGGGAAGTGGTCTCAGAACTG
TTTGTTTCAATTGGCCATTTAAGTTTAGTAGTGAAAGACTGGTTAATGATAACAATGCATCGTAAAACCTTCAGA
AGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTGATGTGGTAGTTTTAAGTTATTAGTTTTTAA
AATCAGTACTTTTTAATGGAAACAACCTTGACCAAAAATTTGTACAGAATTTTGAGACC

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FIGURE 1585

MDSTEPPYSQKREEEIVKEVSTYIKKIGYNPDTVAFVPI SGWNGDNMLEPSANMPWLKGWKATRKDGSASGTMLL
EALDCILPPTHPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPGVVVTFAPVNITTEVKSVEMHHEALSEALP
GDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMETADFIAQVIILNHFGQISAGYAPILDCHAAHIACKFAELKEKI
DRSGKKLEDGPKFLKSGDAAIVDMVPGKPIVESFS DYFPLGHFAVRDMRQTVAVGVKAVDKKAAGGGKVTKSA
QTAQKAK

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FIGURE 1586

CACAGGTGTTGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTG
GACACGTAAATTCGGGCAAGTCCACCACTACTGGCCATCTGACCTACAAATGTGGTGGCATCGACAAAAGAACCA
TTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGACTCCTTCAAGTATGCCTGGGTCTTGCATAAACTGA
AAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTA
TCATTATGCCCTTCTGGCTTACACACTGGGTGTGAAACAAC TAATTGTTGGTGTTAACAAAATGGATTCCACTGA
GCCACCCTACAGCCAGAAGAGAGAAGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGGGTGACAACATGCT
GGAGCCGAGTGCTAACATGCCTTGGCTCAAGGGATGGAAAGCCACCCGTAAGGATGGCAGTGCCAGCGGCACCAT
GCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCA ACTGACAAGCCCTTGCGCCTGCCTCTCCAGGA
TGTCTACAAAATTGGTGGTATTGGTACTGTTTCCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGTGTGGT
GGTCACCTTTGCTCCAGTCAACATTACAACAGAAGTAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGC
TCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGG
TGACAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTATATTGGATTGCCACGCGGCTCAC

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FIGURE 1587

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGTTACAACCCTGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCGAGTGCTAACATGCCTTGGCTCAAGGGATGGAAAGCCACCCGTA
AGGATGGCAGTGCCAGCGGCACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCTGGTGTGGTGGTCACCTTTGCTCCAGTCAACATTACAACAGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAACAGCTGACTTCATTGCTCAGG
TAATTATCCTGAACCATCCAGGCCAAAATAAGCGCTGGCTATGCCCTATATTGGATTGCCACGCGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCGGTTCTGGTAAAAAGCTGGAAGATGGCCCTACCACCT
TTGGGTCATTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCT
GCTGGAGGTGGCAAGGTCACGAAGTCTGCCCAGACAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCC
ACCCAACCTCTTAATCAGTGGTGAAGAATGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTG
AAAGACTGGTACTTTTTAATGGAAACAACCTGACCAAAAATTTGTCACAGAATTTTGAGACCTGTTAAAAAAGTT
TAATGAG

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FIGURE 1588A

TTTGTCCATGTCTCGGACAGAGCCTGGGAAGCTGCCAGTGAGATTTTCAGAGACCAAGAGCGCGAAGGGGCGGGCG
 ATGTGGCAATCCGTCTGGGATGTGAAAAGCGTGGAGCGCATTTCAGAGGAATTCGACGAAAAACAGGAAATCACT
 CCTCTCCCGCTCCTGGGCGCCGCTGCCACTGGGGCAGAGGACTGGGAACCGCGGCAGCGGGATAAGTGGCCCAGC
 CAGAGAGCGCAGCTCCCGCGCCCGGTCTGCCCTGCGAACCAGCGCGGCCCCCTGGCGCTGAGGCTGCTCCGGCC
ATGGCCCCCTCGGCCCCGCGCCCGCCAGGGGTGCTGTCGCCTGCTGCTGGCTCCTCACTGTTGTTCTACGCTGC
 TCGGTATCATTCAATGTTGATGTGAAAAATTCAATGACTTTTCAGCGGCCCCGGTGGAGACATGTTTGGATATACT
 GTTCAACAATATGAAAATGAAGAAGGAAAATGGGTGCTTATTGGTTCTCCGTTAGTTGGCCAACCCAAAAACAGA
 ACTGGAGATGTCTATAAGTGTCAGTTGGGAGAGGTGAATCATTACCTTGTGTAAAGTTGGATCTACCAGTTAAT
 ACATCAATTCCCAATGTACAGAAAGTAAAGGAGAACATGACATTTGGATCAACTTTAGTCACCAACCCAAATGGA
 GGATTTCTGGCTTGTGGGCCCTTATATGCCTATAGATGTGGACATTTGCATTACACAACCTGGAATCTGTTCTGAC
 GTCAGCCCCACATTTCAAGTCGTGAATTCCATTGCCCTGTACAAGAATGCAGCACTCAACTGGACATAGTCATA
 GTGCTGGATGGTTCCAACAGTATTTACCCATGGGACAGTGTTACAGCTTTTTTAAATGACCTTCTTGAAAGAATG
 GATATTGGTCTTAAACAGACACAGGTTGGAATTGTACAGTATGGAGAAAACGTGACCCATGAGTTCAACCTCAAT
 AAGTATTCTTCCACCGAAGAGGTACTTGTGTCAGCAAAGAAAATAGTCCAGAGAGGTGGCCGCCAGACTATGACA
 GCTCTTGGAATAGACACAGCAAGAAAGGAGGCATTACGGAAGCCCGGGGTGCCGAAGAGGAGTTAAAAAAGTC
 ATGGTTATTGTGACAGATGGAGAGTCTCATGACAATCATCGACTGAAGAAGGTATCCAAGACTGTGAAGATGAA
 AACATTCAACGGTTTTTCCATAGCTATTCTTGGCAGCTATAACCGAGGAAATTTAAGCACTGAAAAATTTGTGGAG
 GAAATAAAATCAATTGCAAGTGAACCCACTGAAAAGCATTCTTCAATGTCTCTGATGAATTGGCTCTAGTCACC
 ATTGTTAAACTCTGGGAGAAAGAATATTTGCCCTGGAAGCCACAGCTGACCAGTCAGCAGCTTCATTGAAATG
 GAAATGTCTCAGACTGGCTTCAGTGCTCATTATTCACAGGACTGGGTCTATGCTTGGAGCAGTAGGAGCCTATGAT
 TGGAAATGGAACAGTTGTATGCAGAAAGCTAGTCAAATCATAATCCCTCGAAACACAACCTTTAATGTTGAGTCT
 ACCAAAAAGAATGAACCGCTTGCTTCTTATTTAGGTTACACTGTAACTCTGCTACTGCTTCTTCTGGAGATGTG
 CTCTATATTGCTGGACAGCCTCGGTACAATCATAACGGCCAGGTCAATTATCTACAGGATGGAAGATGGAAACATC
 AAAATCTCCAGACGCTCAGTGGAGAACAGATTGGTTCCTACTTTGGCAGTATTTTAAACAACAACCTGACATTGAC
 AAGGATTCTAATACTGACATTCTTCTAGTCGGAGCCCCCTATGTACATGGGAACAGAGAAGGAGGAGCAAGGAAAA
 GTGTATGTGTATGCTCTCAATCAGACAAGGTTTGAATATCAAATGAGCCTGGAACCTATTAAGCAGACGTGCTGT
 TCATCTCGGCAGCACAATTCATGCACAACAGAAAACAAAAATGAGCCATGCGGGGCTCGTTTTGGAACCTGCAATT
 GCTGCTGTAAAGACCTCAATCTTGATGGATTAAATGACATCGTGATAGGAGCTCCGCTGGAAGATGATCACGGG
 GGAGCTGTGTACATTTATCATGGAAGTGGCAAGACTATAAGGAAAGAGTATGCACAACGTATTCATCAGGTGGG
 GATGGTAAGACACTGAAATTTTTTGGCCAGTCTATCCACGGAGAAATGGATTTAAATGGTGACGGTCTGACAGAT
 GTGACTATTGGGGGCCCTTGGTGGTGCTGCCCTCTTCTGGTCCCAGATGTGGCCGTAGTTAAAGTGACCATGAAT
 TTTGAGCCAAATAAAGTGAATATTCAAAAAGAAAACTGCCATATGGAGGGAAAGGAAACAGTATGCATAAATGCT
 ACAGTGTGTTTTGATGTGAAATTAAGTCTAAAGAAGACAGATTATGAAGCTGATTTGCAGTACCGTGTCAAC
 CTAGATTCACTAAGACAAATATCACGAAGTTTTTTCTCTGGAACCTCAAGAGAGAAAGGTTCAAAGGAACATCACA
 GTTCGAAAATCAGAATGCACTAAGCACTCCTTCTACATGTTGACAAGCATGACTTTTCAGGACTCTGTGAGAATAA
 CGTTGGACTTTAATCTTACCGATCCAGAAAAATGGGCCTGTTCTTGATGATTCTCTACCAAACCTCAGTACATGAAT
 ATATTCCCTTTGCCAAAGATTGTGGAAATAAGGAAAAATGTATCTCAGACCTCAGCCTGCATGTGCCACCACTG
 AAAAGGACCTGCTGATTGTCCGATCCCAGAAATGATAAGTTCAACGTTAGCCTCACAGTCAAAAATACAAAGGACA
 GTGCCTATAACACCAGGACAATAGTGCAATTATCTCCAAATCTAGTTTTTTTTCAGGAATTGAGGCTATCCAAAAAG
 ACAGTTGTGAATCTAATCATAATATCACATGTAAAGTTGGATATCCCTTCTGAGAAGAGGAGAGATGGTAACTT
 TCAAAATATTGTTTTAGTTTAAACATCCTATCTCATGGAAAATGTGACCATTTATTTAAGTGCAACAAGTGACA
 GCGAAGAACCTCCTGAAACCCCTTTCTGATAATGTAGTAAACATTTCTATCCCGGTAAATATGAAGTTGGACTAC
 AGTTTTACAGCTCTGCAAGTGAATACCACATTTCAATTGCTGCCAATGAGACAGTCCCTGAAGTTATTAATTCTA
 CTGAGGACATTGGAAATGAAATTAATATCTTCTACTTGATTAGAAAAAGTGGATCTTTTCCAATGCCAGAGCTTA
 AGCTGTCAATTTTCATTTCCCAATATGACATCAAAATGGTTACCCTGTGCTGTACCCAACCTGGATTGTATCTCTG
 AGAATGCAAACTGCAGACCCCATATCTTTGAGGATCCTTTTCAGTATCAACTCTGGAAAGAAAATGACTACATCAA
 CTGACCATCTCAAACGAGGCACAATTCTGGACTGCAATACATGTAAATTTGCTACCATCACATGTAATCTCACTT
 CTTCTGACATCAGCCAAGTCAATGTTTCGCTTATCTTGTGGAAACCACTTTTATAAAATCATATTTTTCCAGCT

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FIGURE 1588B

TAAATCTTACTATAAGGGGAGAACTTCGGAGTGAAAATGCATCTCTGGTTTTAAGTAGCAGCAATCAAAAAAGAG
AGCTTGCTATTCAAATATCCAAAGATGGGCTACCGGGCAGAGTGCCATTATGGGTCATCCTGCTGAGTGCTTTTG
CCGGATTGTTGCTGTTAATGCTGCTCATTTTAGCACTGTGGAAGATTGGATTCTTCAAAGACCCTGAAAAAGA
AAATGGAGAAATGAAATATTTTTATGAAAGAAAATAATAACAATTATTCAATAATCTATCCTCAGGTTTGCCTCAA
ATATGTGACAAGAAATGTATAATTCATGACATAGTCATGTAACCTATGTAATCCATCAGGGATTCTATTACTTGGA
AATGACAGGTCATGCATTATCCAAAAACAATACCAAAAAGACATATTTTATAAAATGACAAAAATATTTTACAT
AATTACTCATTTTTGTTGAGTAAGCAAAATTACAAAGTGTTTTTAAAAAACCTGTACAAATATGTTTATGTATT
AAATCACCATCCAAAATATTTAAGGAATATATAAAAAGATTTTTATGATCATAGAAACATCTATTTTCAAACAA
TATAAATTAAGCTTTTCCCCTTGATTCTGTTGGATATCCATGTTTCAGCATGACAGTCAGCACTCGTAAATGCCA
AGAAAAGAATTACCTGAAAAAGATCATTTCTCCCTATTCAAATGAGAATATTTTCCCTTGGTAGAATCCATATAC
AATATGGATTGAAAATTAAGTCACCAAGAATACATTTAGCATCTTTGTGTTGGGTCTATACCTAAAAATTTTCC
CTCCCTGCCCAAGGTGATTGGAAAGTACTGCAATTGAGCTAAAATTTTATCTAGGATGGAAAATCAGGATAGACT
CGTTTAAAAACAAGTATATTAATGGGTTAAATTAAGCTTTTACAGAACATGCTTAATTTTGATATTGAGCTCTA
AATGCAAAACTCTTTTATACTGAAAAACACTTAAAGTAGTTTTGTGTGGCATCACAGTGATTGTGCATGAAAAG
CCATATATGGGGGACATGCTAAATGGCTTCTGAATGAAATACGACAGCAGAGAAAGATGCCACTGAAATGCTGA
AATTATCTTTGCTGAGCAGCTTTTGAATGCTAAGGGTTCCAGTATGTGACCCAAAGAAAGAGTTGTCTCAACTCC
TTGGTACAGGGTTCATTCAAACCCCAAGCTGTGAGAGTGTGTTTATTTTTAATTTTTTAAAGGTATTTAATTT
CCAACCACACTTCTTATTTTTTTGAAAAGACAATTTCCATTTTCACTATTACATTTTACCAAGAAGTCACTGCTT
TTAGGTGTGTTGCATCAATATTTAAATAAAATCCCAGAAATGTATTTTAAAGAATTTAGGTTTGAAAACTCAA
ACCAACAGGAAGATATCACACCTTTGTATGTGCTTCTTTGTTCTTGAAGTAGTCATTATGGTTTATTGGAATCTA
CTGTAGCATAAGCTCCTAGGTTGCTCCATTTCTTAGGAAAATAGCAATGAATGAATGTATAGTAGCTGCATGTGT
GAACTACTGCTGTAAAGTTTGCTGACATTTCTGCAACAACATTTCTCCATCTGATTACCAGAACCTGTAACAAG
ACCAGAACATGTATTATCCAGAACTCCTGGGCTCTGCTTTGTTCAAAGAGGAGCAAATCCACATAGAAATTA
ATGTTATAAATTTATTTTTTTAAACTAATTTCCAAAGAATTTAGCTGAAGACTCAGAGTCAGCCTACCTCTTGAC
TCTCCACATCCGCATCTAAGATCCTGAAGGCCAAAGGAATGCGCCTGTGGGATGCCAAAGCCATCAGTAGCTGGA
AGAAAGAATACCTCTTTCTAGAGGTTTGGTGTCTCTTGCTGGCCTGTCTATTATTTGAAATACGCGCTTTTGGA
ATTTCTTTCATTTTCGCTATTTCCAGGTTTCAAGAAATCATACTACCACTTGTTCTTTCTTTGCCAGTAAACTC
AGGGTTTCTCTTATTTCAGAGTTACCATGTTGCACACCCCCAGTGCTCAGCCTGCCAGAAAGCCCTTCTCTGATCT
CAGCAAGATCTTAGTAGTAAAGCTAACGGATCCATTGAAATTCATACTCAGCATCTGTGACTACTAGACAAAGCC
CATTTACTGAACCATAAGTGTGCACTTTTAAACTAAATTGTTAACTGAAAGGGGAAAAAATAGAAATGAGGGCATT
TTGAAGTTTTTTAGAAAAGAGAGGAAGAGCTGTTGGCCAGATCAAAGAGATACTTATAAGCCCGGCACAATTTTTA
ACATAAGTCATTCTGGCTATTAAGTAAAATATTTTCATGAACCAGAAGTCTGTTTCTCTAATATTATAATTTGT
TGAGGTTTGTGTGTGTGTGTGTGTGTCATGTGCAGACACATGTACACATATAAATTGAATACAAAAATAGCTCTAT
AACACCAAAAAACAGAGTTTACAGAAAATAAACACAAAAGCTATATCTGCAAGACAAGTTTGATTCATCTAGTTT
CATATAGTTTTCATATAGTTTTCATTTTATTAATATTTAGGTTTAACTTATAGTTCTGCAATTATTTAAAAACAA
GTACAGAGCGTTTGATTAAAAAAGTCAACAAATGTTTCAAACAGCTTTGTACAAATGTTATAAACATATTTA
ATGATTAAGAAATGTACTAGACTCTATCATTTACTTTTTAAACATTTAATTAGAAAAACAGGTGATATTTAAGAC
TATTTATAAACTTATTGGCCAAATTGCCAAAAA

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FIGURE 1589

MAPRPRARPGVAVACCWLLTVVLRCCVSFNVDVKNSMTFSGPVEDMFGYTVQYENEEGKWVLIGSPLVGQPKNR
TGDVYKCPVGRGESLPCVKLDLPVNTSIPNVTEVKENMTFGSTLVNPNNGGFLACGPLYAYRCGHLHYTTGICSD
VSPTFQVVNSIAPVQECSTQLDIVIVLDGSNSIYPWDSVTAFLNDLLERMDIGPKQTQVGIVQYGENVTHEFNLN
KYSSTEEVLVAAKKIVQRGGRQMTALGIDTARKEAFTEARGARRGVKKVMVIVTDGESHDNHRLKKVIQDCED
NIQRFSIAILGSYNRGNLSTEFVEEIKSIASEPTKHHFFNVDELALVTIVKTLGERIFALEATADQSAASFEM
EMSQTGFSAHYSQDWVMLGAVGAYDWNGTVVMQKASQIIIPRNTTFNVESTKKNEPLASYLGTVNSATASSGDV
LYIAGQPRYNHTGQVIIYRMEDGNIKILQTLSGEQIGSYFGSILTTTDDIDKDSNTDILLVGAPMYMGTEKEEQGK
VYVYALNQTRFEYQMSLEPIKQTCSSRQHNSCTTENKNEPCGARFGTAIAAVKDLNLDGFNDIVIGAPLEDDHG
GAVYIYHGSGKTIRKEYAQRIPSGGDGKTLKFFGQSIHGEMDLNGDGLTDVTIGGLGGAALFWSRDVAVVKVTMN
FEPNKVNIQKKNCHMEGKETVCINATVCFDVKLKSKEDTIYEADLQYRVTLDSLRLQISRSFFSGTQERKVQRNIT
VRKSECTKHSFYMLTSMFRTL

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FIGURE 1590

GTGTAGGGGTAGATTTTCGCTGCAGTGTTCCCCGAGCCTGTTAGACGCAGCGCGCCGGGAGACTGAGAGAGGAAA
GGATAGAGGAAGTGCTGCCCTAGGCTGCATGAGTCGAAGCAAGCGTGTTTCCTTCCCGCCAGGCAAGTGCCCTTA
GAAACCGGGCCCCGCCCTTCTTGGCCTGCATTCCCATCCCCCTCTCCCGGGGCGGAGGTGAGGACCTCCTTGGT
TCCTTTGGTTCTGTGAGTGAGCCCCCTTCTTGGCCATGAAGCTCGTGAGGAAGAACATCGAGAAGGACAATGCGG
GCCAGGTGACCCTGGTCCCCGAGGAGCCTGAGGACATGTGGCACACTTACAACCTCGTGCAAGGTGGGCGACAGCC
TGCGCGCCTCCACCATCCGCAAGGTACAGACAGAGTCCTCCACGGGCAGCGTGGGCAGCAACCGGGTCCGCACTA
CCCTCACTCTCTGCGTGGAGGCCATCGACTTCGACTCTCAAGCCTGCCAGCTGCGGGTTAAGGGGACCAACATCC
AAGAGAATGAGTATGTCAAGATGGGGGCTTACCACACCATCGAGCTGGAGCCCAACCGCCAGTTCACCCTGGCCA
AGAAGCAGTGGGATAGTGTGGTACTGGAGCGCATCGAGCAGGCCTGTGACCCAGCCTGGAGCGCTGATGTGGCGG
CTGTGGTCATGCAGGAAGGCCTCGCCCATATCTGCTTAGTCACTCCCAGCATGACCCTCACTCGGGCCAAGGTGG
AGGTGAACATCCCTAGGAAAAGGAAAGGCAATTGCTCTCAGCATGACCGGGCCTTGGAGCGGTTCTATGAACAGG
TGGTCCAGGCTATCCAGCGCCACATACTTTGATGTTGTAAAGTGCATCCTGGTGGCCAGCCCAGGATTTGTGA
GGGAGCAGTTCTGCGACTACCTGTTTCAACAAGCAGTGAAGACCGACAACAACTGCTCCTGGAAAACCGGTCCA
AATTTCTTCAGGTACATGCCTCCTCCGGACACAAGTACTCCCTGAAAGAGGCCCTTTGTGACCCTACTGTGGCTA
GCCGCCTTTTCAGACACTAAAGCTGCTGGGGAAGTCAAAGCCTTGGATGACTTCTATAAAATGTTACAGCATGAAC
CGGATCGAGCTTTCTATGGACTCAAGCAGGTGGAGAAGGCCAATGAAGCCATGGCAATTGACACATTGCTCATCA
GCGATGAGCTCTTCAGGCATCAGGATGTAGCCACACGGAGCCGGTATGTGAGGCTGGTGGACAGTGTGAAAGAGA
ATGCAGGCACCGTTAGGATATTCTCTAGTCTTCACGTTTCTGGGGAACAGCTCAGCCAGTTGACTGGGGTAGCTG
CCATTCTCCGCTTCCCTGTTCCCGAACTTTCTGACCAAGAGGGTGATTCCAGTTCTGAAGAGGATTAATGATTGA
AACTTAAATTGAGACAATCTTGTGTTTCCCTAAACTGTTACAGTACATTTCTCAGCATCCTTGTGACAGAAAGCT
GCAAGAATGGCACTTTTTGATTTCATACAGGGATTTCTTATGTCTTTGGCTACACTAGATATTTTGTGATTGGCAA
GACATGTATTTAAACAATAAACTA

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FIGURE 1591

CTTCCCTTTTGC GGCTATCACC GAAGCAGGAGTGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCGACCGAAG
CAAGAATCGCAAAGGCATTTCAATGCACCTTCCCACATTGGAAGGAAGACTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACATGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACGTGCCACGTAGGCATTACCCCCAGCAAGGTGGTTATCACTAGGCTAAAACTGGA
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACAATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTCGATTAAAACTTGAAACAAAGAAAA

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FIGURE 1592

GC GCGCGGCTCCGCTGGGAAGCGAGACCCGGGTGGCGGGACAAGACTTGCTTCCCGGCCACGCGCGCTCGGCCGG
CCGTGGGGCGGGGCATAGGCCGTGACGTGATGTCGCGTATCGAGTCTCCGCCCCCTTCCCGCCTCCCGGTATATA
AGACTTCGCCGAGCGCTCTCACTCGCACAAAGTGGACCGGGGTGTTGGGTGCTAGTCGGCACCAGAGGCAAGGGTG
CGAGGACCACGGCCGGCTCGGACGTGTGACCGCGCCTAGGGGGTGGCAGCGGGCAGTGCGGGGCGGCAAGGCGAC
CATGGAGCTTTTGGCGACTATCACCTACCAGCCAGCCGCCAGCACCAAAATGTGCGAGCAGGCGCTGGGCAAGGG
TTGCGGAGCGGACTCGAAGAAGAAGCGGCCGCCGAGCCCCCGAGGAATCGCAGCCACCTCAGTCCCAGGCGCA
AGTGCCCCCGGCGGCCCTCACCACCATCACCACCATTTCGCACTCGGGGGCCGAGATCTCGCGGATTATCGTTCGA
CCCCACGACTGGGAAGCGCTACTGCCGGGGCAAAGTGCTGGGAAAGGGTGGCTTTGCAAAATGTTACGAGATGAC
AGATTTGACAAATAACAAAGTCTACGCCGCAAAATTATTCTCAGCAGAGTAGCTAAACCTCATCAAAGGGA
AAAGATTGACAAAGAAATAGAGCTTCACAGAATTCTTCATCATAAGCATGTAGTGCAGTTTTTACCACTACTTCGA
GGACAAAGAAAAATTTACATTCTCTTGAATACTGCAGTAGAAGGTCAATGGCTCATATTTTGAAAGCAAGAAA
GGTGTGACAGAGCCAGAAGTTCGATACTACCTCAGGCAGATTGTGTCTGGACTGAAATACCTTCATGAACAAGA
AATCTTGACAGAGATCTCAAAGTAGGGAACTTTTTTATTAATGAAGCCATGGAAGTAAAGTTGGGGACTTCGG
TCTGGCAGCCAGGCTAGAACCCTTGGAACACAGAAGGAGAACGATATGTGGTACCCCAAATTATCTCTCTCTCTGA
AGTCTCAACAAACAAGGACATGGCTGTGAATCAGACATTTGGGCCCTGGGCTGTGTAATGTATACAATGTTACT
AGGGAGGCCCCCATTTGAAACTACAAATCTCAAAGAACTTATAGGTGCATAAGGGAAGCAAGGTATACAATGCC
GTCTCATTGCTGGCTCCTGCCAAGCACTTAATTGCTAGTATGTTGTCCAAAAACCCAGAGGATCGTCCCAGTTT
GGATGACATCATTGACATGACTTTTTTTTTGAGGGCTTCACTCCGGACAGACTGTCTTCTAGCTGTTGTCATAC
AGTTCCAGATTTCCACTTATCAAGCCCAGCTAAGAATTTCTTTAAGAAAGCAGCTGCTGCTCTTTTTGGTGGCAA
AAAAGACAAAGCAAGATATATTGACACACATAATAGAGTGTCTAAAGAAGATGAAGACATCTACAAGCTTAGGCA
TGATTTGAAAAAGACTTCAATAACTCAGCAACCCAGCAAAACACAGGACAGATGAGGAGCTCCAGCCACCTACCAC
CACAGTTGCCAGGTCTGGAACACCCGCAGTAGAAAACAAGCAGCAGATTGGGGATGCTATTCCGGATGATAGTCAG
AGGGACTCTTGGCAGCTGTAGCAGCAGCAGTGAATGCCTTGAAGACAGTACCATGGGAAGTGTGTCAGACACAGT
GGCAAGGGTTCTTCGGGGATGTCTGGAACATGCCGGAAGCTGATTGCATTTCCCAAAGAGCAGCTGAGCACATC
ATTTAGTGGGTACCAAATGGGTTGATTACTCTAACAATATGGCTTTGGGTACCAGCTCTCAGACCACACCGT
CGGTGTCTTTTCAACAATGGTGTCTCATGAGCCTCCTTCAGACAAAAAACAGTTCACTATTACGCAGAGCT
TGGCCAATGCTCAGTTTTCCAGCAACAGATGCTCCTGAGCAATTTATTAGTCAAGTGACGGTGTGAAATACTT
TTCTCATTACATGGAGGAGAACCTCATGGATGGTGGAGATCTGCCTAGTGTACTGATATTGGAAGACCTCGGCT
CTACCTCCTTCAGTGGCTAAATCTGATAAGGCCCTAATGATGCTCTTTAATGATGGCACCTTTCAGGTGAATTT
CTACCATGATCATACAAAAATCATCATCTGTAGCCAAATGAAGAATACCTTCTCACCTACATCAATGAGGATAG
GATATCTACAACTTTCAGGCTGACAACCTCTGCTGATGTCTGGCTGTTTCATCAGAATTAATAAATCGAATGGAATA
TGCCCTGAACATGCTCTTACAAAGATGTAAGTGAAGACTTTTCGAATGGACCCTATGGGACTCCTCTTTCCAC
TGTGAGATCTACAGGGAACCCAAAAAGATGATCTAGAGTATGTTGAAGAAGATGGACATGTGGTGGTACGAAAAC
AATTCCTCTGTGGCCTGCTGGACTGGGTGGAACCAGAACAGGCTAAGGCATACAGTTCTTGACTTTGGACAATCC
AAGAGTGAACCAGAATGCAGTTTTCTTGAGATACCTGTTTTAAAGGTTTTTCAGACAATTTGCAGAAAGGTG
CATTGATTCTTAAATTCTCTCTGTTGAGAGCATTTCAGCCAGAGGACTTTGGAAGTGTGAATATACTTCCTGAAG
GGGAGGGAGAAGGGAGGAAGCTCCCATGTTGTTTAAAGGCTGTAATTGGAGCAGCTTTTGGCTGCGTAACTGTGA
ACTATGGCCATATATAATTTTTTTTTCATTAAATTTTTGAAGATACTTGTGGCTGGAAAAGTGCATTCTTGTTAAT
AACTTTTTTATTATTACAGCCCAAAGAGCAGTATTTATTATCAAATGTCTTTTTTTTTTATGTTGACCATTTTA
AACCGTTGGCAATAAAGAGTATGAAAACGC

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FIGURE 1593

ATGGAAGGCATCACCGCTGTCACGGTCAACCAGAGCCTGCTGAACTCCCTTAACTGGAGATGGACTCCAGCATCC
AGGAGACCACACCCAGGAGAAGAACCAGATCAAGACACTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTACA
GTTCTGAGCAGCAGACAAGATGCTGGAGACCAACTGGAGCCTCCTGCAGCAGGAGAAGATGGCTCGGAGCAA
CATGGACAACATGAGAAGCTGAAGCTGGAGGCGGAAC TTGGCAACATGCAGGGGCTGCTGGAGGACTTCAAGAAC
AAGTATGAGGATGAGATCAATAAGCGTACAGGGATGGAGAATGAATTTTCTCATCAAGAAGGATGTGGATAAA
GCTTACATGACAAGGCAGCTGTATGAAGAGGAGATCCAGGAGCTGCAGTCCCAGATCTCGGACACGTCTGTGGTG
CTGTCCATGGACAACAGCCGCTCCCTGGACATACGTGGGGAGCTGGCCGATAAGGATGCCAACGCCAAGCTGTCT
GAGCTGGAGGCCGCCCTGCAGTGGACCAAGCAGGACATGGGCGGCAGCTGCCTGCTGGAGGGCGAGGAGAGCCGG
CTGGAGTCTGGGATGCAGAACATGAGTATCCGTACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGACC
TATGGGGGCCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGTTTTGGCTCTGGTGCGGGCTCCTGCGCT
TTCAGCCGCACCTGCTCCATCAGGGCCATGATTGTGAAGAAGATTGAGACCCACGATGGGAAGCTGGTGTCCGAG
TCCTCTGACGTCCTGCTCAAGTGA

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FIGURE 1594

MEGITAVTVNQSLNLSLNWRWTPASRRPHPGEEPDDQTQQQVCLLHRQGTVPGAAEQDAGDQLEPPAAGEDGSEQ
HGQHEKLEAEELGNMQGLEDKFNKYEDEINKRTGMENEFFLIKDVCKAYMTRQLYEEIQLQSQISDTSVV
LSMDNSRSLDIRGELADKDANAKLSELEAALQWTKQDMGGSCLEGEESRLESGMQNMSIRTKTTSYAGGLSST
YGGLTSPGLSYGLGSSFGSGAGSCAFSRTCSIRAMIVKKIETHDGKLVSESSDVLLK

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FIGURE 1595

GTTGAAGGAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCA
GCTAATGAAGATCAAAAAATTGGTATGGAAATTGTTAAAAGAACACTCAAAATTCCAGCAATGACCACTGCTACG
AATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAATTCCTCAGAAGTTGGTTATGATGCTATG
GTTGGAGATTTTATGAATATGGTAGAAAAAGGAATTATTGACCCAACAAAGCTTGTGAGAACTGCTTTATTGGAT
GCTGCTGGTGTGGCCTCTCTGTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCCT
GGAATGGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACC
TTTATTAATGAACTGTGACAGGAAGCCCAAGGCAGTGTTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAA
ATGAAAAATATATAATGGTTTACTGCTGTCATTGTCCATGCCTACAGATAATTTATTTTGTATTTTGAATAAAA
AACATTTGTACATTCTTGATACTGGGTACAAGAGCCATGTACCAATGTACTGCTTT

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FIGURE 1596

ACCTGTCTCGCCGCGCGCATGCCCTGCAGCCGCCCCACAGAAATGCTTCGGTTACCCACAGTCTTTCGCCAGATG
AGACCAGTGTCCAGGGTACTGGCTCCTCATCTCACTCGAGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCC
CGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGAGCCAAAGGGAAGAACA
GTGATTATTGAGCAGAGCTGGGGAAGTCCCAACGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTG
AAGGATAAATATAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATTGAAAAACGTATTCA
AGAAATCATTGGGCAGTTAGATGTCACAACTAGTGAATATGAAAAGGAAAACTGAATGAATGGCTGGCAAACT
TTCAGATGGAGTAGTTGTGCTGAAGTTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTAC
AGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGGAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCGATG
CATTCCAGCAATGACCACTGCTACGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAATTC
CTCAGAAGTTGGTTATGATGCTATGGTTGGAGATTT

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FIGURE 1597

CTCTGTCCCTCACTCGCCGCCGACAACCTGTCTCGCCGCGCGCATGCCCTGCAGCCGCCCCACAGAAATGCTTCG
GTTACCCACAGTCTTTCGCCAGATGAGACCAGTGTCCAGGGTACTGGCTCCTCATCTCACTCGAGCTTATGCCAA
AGATGTAAAATTTGGTGCAGATGCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGT
TACAATGGAGCCAAAGGGAAGAACAGTGATTATTGAGCAGAGCTGGGGAAGTCCCAACGTAACAAAAGATGGTGT
GACTGTTGCAAAGTCAATTGACTTGAAGGATAAATATAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAA
TAACACAAATGAAGAATCTGGGGATGGCACTACCACTGCTACTGTACTGGCAGGCTCTATAGCCAAGGAAGGCTT
CCAGAAGATTAGCAAAGGTGCTAATCCAGTGGAATCAGGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGC
TGAACCTTAAAAAGCAGTCTAAACCTGTGACCACCCCTGAAGAAATTGCACAGGTTGCTATGATTTCTGCAAATGG
AGACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAGGTTGGAAGAAAGGGTGTCAACAGTAAAGGA
TGGA AAAA CACTGAATGATGAATTAGAAATTATTGAAGGCATGAAGTTTGATTGAGGGTATATTTCTCCATACTT
TATTAATACATCAAAAAGGTCAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAG
TGTCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCACCATAAGCCTTTGGTGATAATCGCTGAAGATGT
TGATGGAGAAGCTCTAAGTACACTCATCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCC
AGGGTTTGGTGACAATAGAAAAGAACCACTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGA
GGGGTTGACCCTGAATCTTGAAGATGTTGAGCCTCATGACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGA
CGATGCCATGCTCTTAAAAGGAAAAGGTGACAAGGCTCAACTTGAAAACGTATTCAAGAAATCATTGGGCAGTT
AGATGTCACAACCTAGTGAATATGAAAAGGAAAACTGAATGAATGGCTGGCAAACTTTTCAAGATGGAGTAGTTGT
GCTGAAGTTTGGTGGGACAAGTGATGTTGAAGTGAATGAAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCG
ATGCATTCCAGCCTTGGA CTCA TTGACTCCAGCTAATGAAGAT

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FIGURE 1598

ACGAACAGGCCAATAAGGAGGGAGCAGTGC GGGGTTTTAAATCTGAGGCTAGGCTGGCTCTTCTCGGCGTGCTGCG
GCGGAACGGCTGTTGGTTTCTGCTGGTTGTAGGTCCTTGGCTGGTCGGGCCTCCGGTGTTCTGCTTCTCCCCGCT
GAGCTGCTGCCTGGTGAAGAGGAAGCCATGGCGCTCCGAGTCACCAGGAAGTCGAAAATTAATGCTGAAAAAAG
GCGAAGATCAACATGGCAGGCGCAAAGCGCGTTCCCTACGGCCCCTGCTGCAACCTCCAAGCCCGGACTGAGGCCA
AGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAACAACTGCAGGCCAAAATGCCTATGAAGAAGGAAGCA
AAACCTTCAGCTACTGAAAAAGTCATTGATAAAAACTACCAAAACCTCTTGAAAAGGTACCTATGCTGGTGCCA
GTGCCAGTGTCTGAGCCAGTGCCAGAGCCAGAACCTGAGCCAGAACCTGAGCCTGTAAAGAAGAAAACTTTTCG
CCTGAGCCTATTTTGGTTGATACTGCCTCTCCAAGCCCAATGGAACATCTGGATGTGCCCCTGCAGAAGAAGAC
CTGTGTCAGGCTTTCTCTGATGTAATTCTTGCAAGTAAATGATGTGGATGCAGAAGATGGAGCTGATCCAAACCTT
TGTAAGTGAATATGTGAAAGATATTTATGCTTATCTGAGACAACTTGAGGAAGAGCAAGCAGTCAGACCAAAATAC
CTACTGGGTCGGGAAGTCACTGGAAACATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGAAATTC
AGGTTGTTGCAGGAGACCATGTACATGACTGTCTCCATTATTGATCGGTTTCATGCAGAATAATTGTGTGCCCAAG
AAGATGCTGCAGCTGGTTGGTGTCAGTGCATGTTTATTGCAAGCAAATATGAAGAAATGTACCTCCAGAAATT
GGTGACTTTGCTTTTGTGACTGACAACACTTATACTAAGCACCAAATCAGACAGATGGAAATGAAGATTCTAAGA
GCTTTAACTTTGGTCTGGGTCGGCCTCTACCTTTGCACTTCCTTCGGAGAGCATCTAAGATTGGAGAGGTTGAT
GTCGAGCAACATACTTTGGCCAAATACCTGATGGAACAACTATGTTGGACTATGACATGGTGCACTTTCCTCCT
TCTCAAATTGCAGCAGGAGCTTTTGTGCTTAGCACTGAAAATTCTGGATAATGGTGAATGGACACCAACTCTACAA
CATTACCTGTCATATACTGAAGAATCTCTTCTCCAGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTAAAT
CAAGGACTTACAAAGCACATGACTGTCAAGAACAAGTATGCCACATCGAAGCATGCTAAGATCAGCACTCTACCA
CAGCTGAATTCTGCACTAGTTCAAGATTTAGCCAAGGCTGTGGCAAAGGTGTAACTTGTAACCTTGAGTTGGAGT
ACTATATTTACAAATAAAATTGGCACCATGTGCCATCTGTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 1599

MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPRTALGDIGNKVSEQLQAKMPMKKEAKPSATGKVI
DKKLPKPLEKVPMLVPVPVSEPVPEPEPEPEPEPVKEEKLSPPEILVDTASPSMETSGCAPAEEDLCQAFSDVI
LAVNDVDAEDGADPNLCSEYVKDIYAYLRQLEEEQAVRPKYLLGREVTGNMRAILIDWLQVQVQMKFRLQETMYM
TVSIIIDRFMQNNCVPKKMLQLVGVTAMFIASKYEEMYPPEIGDFAFVTDNTYTKHQIRQMEMKILRALNFGLGRP
LPLHFLRRASKIGEVDVEQHTLAKYLMELTMLDYDMVHFPPSQIAAGAFCLALKILDNGEWTPTLQHYLSYTEES
LLPVMQHLAKNVVMVNQGLTKHMTVKNKYATSKHAKISTLPQLNSALVQDLAKAVAKV

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FIGURE 1600

GCTGGCAAGCGCTTCCTGCGCAGCGCCTAGGCGACCTGGAGTTTGTGACGCTGTGATGGTCTAGAGGCTGGAGAT
TCAAGATCTGGGTGCCATCATTCTGTTCTGTTGATGACCTCTTCCAGGTTACATACAGCTTACATCTTGCA
TCCTCAAGCGTTTTTCTTATAAGGCTAAAAATTCACAAAGCATATATCAATGAATCAGGAGGATCTAGATCCGGA
TAGTACTACAGATGTGGGAGATGTTACAAATACTGAAGAAGAACTTATTAGAGAATGTGAAGAAATGTGGAAAGA
TATGGAAGAATGTCAGAATAAATTATCACTTATTGGAAGTGAACACTCACCGATTCAAATGCTCAGCTATCATT
GTTAATTATGCAAGTAAATGTTTAACCGCTGAACTCAGTCAATGGCAGAAAAAACACCTGAAACAATTCCTT
GACTGAAGACGTTCTCATAACATTAGGAAAAGAAGAGTTCCAAAAGCTGAGACAAGATCTTGAAATGGTACTGTC
CACTAAGGAGTCAAAGAATGAAAAGTTAAAGGAAGACTTAGAAAAGGGAACAACGGTGGTTGGATGAACAGCAACA
GATAATGGAATCTCTTAATGTACTACACAGTGAATTGAAAAATAAGGTTGAAACATTTTCTGAATCAAGAATCTT
TAATGAACTGAAAACATAAATGCTTAATATAAAAGAATATAAGGAGAACTCTTGAGTACCTTGGGCGAGTTTCT
AGAAGACCATTTTCTCTGCTGATAGAAGTGTTAAAAAGAAAAAGAAAAACATTCAAGAATCATCTGTAAACCT
GATAACACTGCATGAAATGTTAGAGATTCTTATAAATAGATTATTTGATGTTCCACATGATCCATATGTCAAAAT
TAGTGATTCTTTTGGCCACCTTATGTTGAGCTGCTGCTGCGTAATGGAATTGCCTTGAGACATCCAGAAGATCC
AACCCGAATAAGATTAGAAGCTTTCCATCAGTAAAGGATGTTTTCTTTTTTTCACACAGTAAAAATTCTTATCAT
TCAAGGATATTGGAACACAGGACTATTTGGATAAAAAACATTATTTGCAAATTAATGCGCATAGGCCATCTTAC
TTTTATTGCAAAATGGCATGTGCTGCCATCTATTATTCATTTTTAAATGGTCATTTCTTATTTCAGTGAGTGCTTT
AGTGTTTTAACTATATGGATAAGAATGCAGGTAGATAATATTCTAGGCATAAAACATTTAATGTACCTTACCTC
ATGCAATATTCTTTGGATTCTTTGTTGATTATGATATTGCTAATATAATATTTTCTTAAATATATAACAATAT
CTTTTATGCATTTTGAGTTCCAGCTGGTGCTTCTTTATATTTAGAAATTATAATGGGAAGGTCATTTAATTTACA
GATGGTTTTAAATTTAGGTAATATCTGAGGTGGCATAATTTAAAAATATTTAGCAAATTTGTTTCATATATACT
GTCTTATTTCTAGATTTGTTTTAAATTTGGAATATGAAAACTAATGGATAAAGCTAGCATAAAATTGATATTTTA
GTTTGTATTATTAATATATCATGTTACCTTATATATTAATCTACTCTTGATTCTGCTAATTATTACCAACAAAAT
TGTATTCATGACATTTTATTAATCCTCTGTGAATTTTCTGTAAATAAAATTTATTTCTGAAAATCTCT

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FIGURE 1601

MNQEDLDPDSTTDVGDVTNTEEEELIRECEEMWKDMEECQNKLSLIGTETLTDSNAQLSLLIMQVKCLTAELSQWQ
KKTPEIPLTEDVLITLGKEEFQKLRQDLEMVLSTKESKNEKLKEDLEREQRWLDEQQQIMESLNVLHSELKKNV
ETFSESRIFNELKTKMLNIKEYKEKLLSTLGEFLEDHFPLPDRSVKKKKKNIQESSVNLITLHEMLEILINRLFD
VPHPYVKISDSFWPPYVELLLRNGIALRHPEDPTRIRLEAFHQ

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FIGURE 1602

GCAGGAAGATATGGCGGCTAGCGGAGGTGTGAGTGGACGCGGGACTCAGCGGCCGGATTTTCTCTTCCCTTCTTT
TCCCTTTTCCCTTCCCTATTTGAAATTGGCATCGAGGGGGCTAAGTTCGGGTGGCAGCGCCGGGCGCAACGCAGGG
GTCACGGCGACGGCGGGCGGGCTGACGGCTGGAAGGGTAGGCTTCATTACCGCTCGTCTCTTCCCTCGCTCC
GCTCGGTGTGACGGCGGGCGGGCGGGCGGGGGCGGACTTCGTCCCTCCTCCTGCTCCCCCCCACACCGGAGCGG
GCACTCTTCGCTTCGCCATCCCCGACCCCTTACCCCGAGGACTGGGCGCCTCCTCCGGCGCAGCTGAGGGAGCG
GGGGCCGGTCTCCTGCTCGGTGTGTCGAGCCTCCATGTCGGATAATCAGAGCTGGAACCTCGTCGGGCTCGGAGGAG
GATCCAGAGACGGAGTCTGGGCCGCTGTGGAGCGCTGCGGGTCTCAGTAAGTGGACAACTACATTCATGGG
TGGCAGGATCGTTGGGTAGTTTTGAAAAATAATGCTCTGAGTTACTACAAATCTGAAGATGAAACAGAGTATGGC
TGCAGAGGATCCATCTGTCTTAGCAAGGCTGTCTATCACACCTCACGATTTTGATGAATGTCGATTTGATATTAGT
GTAATGATAGTGTTTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATAGATGCCATTGAACAG
CACAAGACTGAATCTGGATATGGATCTGAATCCAGCTTGCGTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGA
GCAAGTGGCTACTCTGCAACATCCACCTCTTCAATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAATG
GAAACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTGTGCTGATGCTGTC
TCTAAGGATGAACTTCAAAGGGATAAAGTGGTAGAAGATGATGAAGATGACTTTCCTACAACGCGTTCTGATGGT
GACTTCTTGATAGTACCAACGGCAATAAAGAAAAGTTATTTCCACATGTGACACCAAAGGAATTAATGGTATA
GACTTTAAAGGGGAAGCGATAACTTTTAAAGCAACTACTGCTGGAATCCTTGCAACACTTCTCATTGTATTGAA
CTAATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAACTGAGAAGAAAAGAAGAACAGAGGAA
GCATATAAAAAATGCAATGACAGAACTTAAGAAAAAATCCCACCTTGGAGGACCAGATTATGAAGAAGGCCCTAAC
AGTCTGATTAATGAAGAAGAGTTCTTTGATGCTGTTGAAGCTGCTCTTGACAGACAAGATAAAATAGAAGAACAG
TCACAGAGTGAAAAGGTGAGATTACATTGGCCTACATCCTTGCCCTCTGGAGATGCCTTTTCTTCTGTGGGGACA
CATAGATTTGTCCAAAAGCCCTATAGTCGCTCTTCCCTCCATGTCTTCCATTGATCTAGTCAGTGCCTCTGATGAT
GTTACAGATTTCAGCTCCCAGGTTGAAGAGATGGTGCAGAACCACATGACTTACTCATTACAGGATGTAGGCGGA
GATGCCAATTGGCAGTTGGTTGTAGAAGAAGGAGAAATGAAGGTATACAGAAGAGAAGTAGAAGAAAATGGGATT
GTTCTGGATCCTTTAAAAGCTACCCATGCAGTTAAAGGCGTCACAGGACATGAAGTCTGCAATTATTTCTGGAAT
GTTGACGTTTCGCAATGACTGGGAAACAACCTATAGAAAACCTTCATGTGGTGGAAACATTAGCTGATAATGCAATC
ATCATTTATCAAACACACAAGAGGGTGTGGCCTGCTTCTCAGCGAGACGTATTATATCTTTCTGTCAATTCGAAAG
ATACCAGCCTTGACTGAAAATGACCCTGAAACTTGGATAGTTTGTAAATTTTCTGTGGATCATGACAGTGCTCCT
CTAAACAACCGATGTGTCCGTGCCAAAATAAATGTTGCTATGATTTGTCAAACCTTGGTAAGCCCACCAGAGGGA
AACCAGGAAATTAGCAGGGACAACATTCTATGCAAGATTACATATGTAGCTAATGTGAACCCTGGAGGATGGGCA
CCAGCCTCAGTGTTAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAAACGTTTTACTTCTTACGTCCAA
GAAAAAAGTGCAGGAAAGCCTATTTTGTCTTAGTATTAACAGGTAAGAGATATGTTTTATCTTTTTTAACT
TTATTTGACTAATATGACTGTCAATACTAAAATTTAGTTGTTGAAAGTATTACTATGTTTTT

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FIGURE 1603

MSDNQSWNSSGSEEDPETESGPPVERCGVLSKWTNYIHGWQDRWVVLKNNALSYKSEDETEYGCRGSICLSKAV
ITPHDFDECRFDISVNDVWYLRAQDPDHRQQWIDAIEQHKTESGYGSESSLRRHGSMVSLVSGASGYSATSTSS
FKKGHSLREKLAEMETFRDILCRQVDTLQKYFDACADAVSKDELQRDKVVEDDEDDFPPTTRSDGDFLHSTNGNKE
KLFPHVTPKGINGIDFKGEAITFKATTAGILATLSHCIELMVKREDQKRLDKETEKRRTEEAYKNAMTELKK
KSHFGGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVRHLHWPTSLPSGDAFSSVGTHRFVQKPYSRS
SSMSSIDLVSASDDVHRFSSQVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKVYRREVEENGIVLDPLKATHAV
KGV TGHEVCNYFWNVDVRNDWETTIENTFHVETLADNAIIYQTHKRVWPASQRDVLYLSVIRKIPALTENDPET
WIVCNFSVDHDSAPLNNRCVRKINVAMICQTLVSPPEGNQEISRDNILCKITYVANVNPGGWAPASVLRVAKR
EYPKFLKRFTSYVQEKTAGKPILF

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FIGURE 1604

AGTACAATCTGCTGCCCAGGACCTGGACATTGACAGATAAAATGAAGTGGGTCAGTTAACTACAGAGGGAAGAAT
ATGAAGAACTGCTTCATTATGCTATAGTGACTCCAAATATTGAACCCCTGTGCTTCACAGTCATCTCATCCTAAGG
GAGAATTGGTGCCAGATGTCAGAATTTCTACAATTCATGATATTCTTCATAGTCAAGGAAATAACTCTGAAGTAA
GAGAACTGCAATAGAAGTTGGAAAAGGATGTGATTTCCATATTTCAAGTCATTCAAAGACAGATGCTACAACCTT
TTCTTTTATTCAGAGTCATCACCAGTGTTATCGCCAAGGAAGCCTTCTCACCAGTCATGGATTTTTTCAGTTCA
CATCTTTTAGCTGACTCTTCCTCACCAGCAACAAATTCTAGTCATACAGATGCCCATGAAATACTTGTGAGCGAT
TTTCTTGTTTCTGATGAAAACCTTCAGAAGATGGAAAATGTGCTTGATCTTTGGAGTTCAGGTCTTAAGACAAAC
ATCATATCTGAACTAAGTAAATGGAGACTTAATTTTATTGACTGGCACCGAATGGAAATGAGAAAAGAGAAAGAA
AAACATGCAGCACATTTAAACAACCTGTGTAATCAGATCAATGAATTGAAGGAGCTGCAAAAACCTTTGAAATC
TCCATTGGGAGAAAAGATGAGGTGATTTCTAGCTTGTCTCATGCCATAGGCAAGCAAAAGGAAAAGATAGAGTTG
ATGAGAACATTCTTCCACTGGCGAATCGGCCATGTGAGAGCCAGACAGGATGTTTATGAAGGTAACTAGCTGAC
CAGTACTACCAGAGAACTTTACTGAAGAAAGTCTGGAAAGTCTGGCGTTCCGTAGTGCAAAAGCAGTGGAAGAT
GTGGTAGAAAAGAGCTTGTCAGCAAGAGCTGAAGAAGTTTGTATCCAGATTTCCAATGATTATGAAGCCAAAGTT
GCTATGTTATCTGGAGCTTTGGAAAATGCAAAAGCTGAGATTCAAAGAATGCAACATGAAAAAGAGCACTTTGAA
GATTCCATGAAAAAGCTTTCATGAGGGGTGTATGTGCATTAAATCTTGAAGCCATGACTATATTTCAAAACAGA
AATGATGCAGCTCCTCCGATGCCCTTACCAGTTACATCACCAGTCTGCCATCCCCACCAGCCGCCGTGCGAGGA
GCCAGCGCGACTGCCGTTCCCTCAGCTGCTTCGATGACTTCTACCAGGGCTGCTTCCGCATCTTCTGTTACGTT
CCTGTTTCTGCTCTTGGTGCAGGATCTGCAGCTACTGCTGCATCAGAAGAAATGTATGTGCCAAGAGTTGTAACC
TCTGCACAACAGAAAGCAGGAAGAAGTATTACAGCCCGGATCACAGGAAGATGTGATTTTGCTTCAAAAATAGA
ATTAGCAGCAGTTTAGCTATAATGGGAGTTTCTCCTCCCATGAGCTCAGTTGTTGTGGAAAAACATCATCCAGTC
ACAGTGCAAACCATTCCTCAAGCAACTGCAGCAAAATATCCCCGGACCATTCATCCTGAAAGTAGTACCTCAGCT
TCCAGATCACTTGGAACCAGATCAGCTCACACCCAGTCTCTCACAAGTGTTTATTCCATAAAAGTGTTGACTAA
AGTGAATATGTCCATAGTGGGGTCTTTTAATCCCTCTGGTCTTACCAAGGGTTAGAAGTCTTTTGGTTTTAACTT
TTCCATATTGTTAGAACATCATGGAGACATCATGTTTCTGTTCAAAATTACAAGAGGCTTTTTTCAAGCTCTAC
CATGCTTTGTAACATATGTAGAAATTATTTTAATGTTATTTTTTATTTAAGCAATTAAGTAAAACCTTTTTTAA
TT

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FIGURE 1605

MSSDEEKYSLPVVQNDSSRGSSVSSNLQEEYEELLHYAIVTPNIEPCASQSSHPKGELVPDVRISTIHDILHSQG
NNSEVRETAIEVGKGCDFHISSHSKTDESSPVLSPRKPSHPVMDFFSSHLLADSSSPATNSSHTDAHEILVSDFL
VSDENLQKMENVLDLWSSGLKTNIISELSKWRLNFDWHRMEMRKEKEKHAHLKQLCNQINELKELQKTFEISI
GRKDEVISLSHAIGKQKEKIELMRTFFHWRIGHVRARQDVYEGKLADQYYQRTLLKKVWKVWRSVVKQWKDVV
ERACQARAEVCIQISNDYEAKVAMLSGALENAKAEIQRMQHEKEHFEDSMKKAFMRGVCALNLEAMTIFQNRND
AGIDSTNNKKEEYGPGVQGKEHSAHLDPSPMPPLPVTSPLLPSPPAVGGASATAVPSAASMTSTRAASASSVH
VPVSALGAGSAATAASEEMYVPRVVTSAQQKAGRTITARITGRCDFASKNRISSSLAIMGVSPPMSSVVVEKHHP
VTVQTIPQATAAKYPRTIHPESSTSASRSLGTRSAHTQSLTSVHSIKVVD

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FIGURE 1606

ATGGAGGGTCGTGGCTATGCCAAGGAGGGACTAAAAGATCTGGCCACCAGGACACCCAGAACTCCTAAGAAGAAA
TTAACATCTTGTGAGCAGCCCTTTGGCTGTGAAAATGCAAATGACTCAGACTGGCTGCCAAGAGTCACCTGTGAA
GCTCAACTGGCACAGGACTCAGGGCTGAGCTCCATTCTTAACTCTCCATCCCATACAGCCAAACAAGCAGAACAC
AGGTTGCGCCCAAGGGTTCTGAACCCAGGATGTATAAAGAAGATGGGCCAGCGAGAGCTCACCGGATGCCGCCAG
AACCGCGACGCTTTCCAAGGCACGGGGCCCTCTCTCGGGGCGAACCCATTCCAGGGCGCCCTGCCCTTCACAAAG
AAAAGAGAACTCTCCCCGGGGCTCCCGCCGGCTTCTCCGGGATCGGTCACGTTTCCCAGAATTAAACAGAAAAAG
CCTGGGAGTGGGCAAGTTGGCAAAAGGAAGAGAGGCCTGTTTGGCTGTGACATGTGGGTGGAGGGTCATAAAGGC
CAGGTGGGGAATGGCAGTGTCCGGCTGAGGGAGGGAGCTGCCACACTGCCTGATCATTGCGTGGCAGCAGCGGG
GAGGAGATCGGCAGCACCTTTGGCCACAGAGCTGCGCCTCTGTCAAAACAGGCAGCGCTGCAGGCGGGCCAGAGA
TCCACTTCCACAGATTCTCGTGGCCAGGGCAGGGGTGTGTTGTGGTGGGCAGACTGGCCAGGCGACCCTGGCCCA
CCATCACCTCTCTTTCACAGCCCAGATGCGTTCTCGGGGCCCCAGGCCTGCACCCGTTTCTTCTCCCGCATCACG
AAGGCCAATGTGGACCTGCTC  CGAGGGGGGCTCCCGAGCGACAGCGGCTGCTGCCTGCGGCTCTGGCCTGCTGG
GGGCTGGGGCCAGCGCGGGGCGGAGAGGGCTCGGCAGTTCCAAAAGCGCTGAGGCCAGCCTCTCTGCAGGGTGTG
CGGGGGTCTCTGCTGAGCGAGGCTGATGTGCGGGCTCTGGGAGGCCTGGCTTGCACCTGCCTGGGCGCTTTGTG
GCCGAGTCGGCCGAAGTGCTGCTACCCCGGCTGAGGACTGCCATCAGGCTACAAGGCCACTTTGCCACAACAGGC
AGAAAACAAGGAACACTTGGGAATTTACATCTCCTTGTTTGGCCCTTAGACAATGATCAACTTGTATTGGAATAT
GAAACCCAGCTCCCTGGCCTGAGTCTGATCAAACCTCTCAGGATTTTTTAAAAACCCTCAGTGGACAAAAGTCTACT
CACGCTGCTTTGGTAGAATTGGACATAGCCAAGGAGCTCATCAGAAAAGGAGCTGCTAGTCACAGGCAGCAACAA
ACCCACCTCCACACAGGGATCCACTGTGGGGCTGCAATAACTGCTCCTTCTCTGAGTGATACAGGACATTCTGAG
GAAAAGTGGCTGGTGGATGGGCAGTATGTAATGACACAAGCTCATGAGTACAAGCTGAGACATGATGGGAGTCTA
CGGGTCCCATCTACACAGCTTGATGCAGCTCTTCCAATTAATGGCCAGTGTCTGGCTGAACTATTATAG

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FIGURE 1607

MEGRGYAKEGLKDLATRTPTPKKKLTSCEQPFGCENANDSDWLPRVTCEAQLAQDSGLSSILNSPSHTAKQAEH
RLRPRVLNPGCIKKMGQRELTGCRQNRDAFQGTGPSLGANPFQALPFTKKRELSPGLPPASPGSVTFPRIKQKK
PGSGQVGKRKRGLFGCDMWVEGHKGQVGNGSVRLREGAATLPDHSRGSSGEEIGSTFGHRAAPLSQTRTAIRLQG
HFATTGRKQGTGLGNLHLLVWPLDNDQLVLEYETQLPGLSLIKLSGFLKTLSGQKSTHAALVELDIKELIRKGAA
SHRQQQTHLHTGIHCGAAITAPSLSDTGHSEEKWLVDGQYVMTQAHEYKLRHDGSLRVPSTQLDAALPINGQCLA
ELL

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FIGURE 1608

GGGGCGCACAGAGCCAGAGGGGCTTGCGAGCGGCGGCTGAGGGACCGCGGGGAGGGGGCGCCGAGCGGCTCCAGC
GCAGAGACTCTCACTGCACGCCGAGGGGCGCCCTTCTCTGCTCGCGCCCGCGCGACCGCGCGCCCCAGTCCC GCC
CCGCCCCGCTAACCGCCCCAGACACAGCGCTCGCCGAGGGTCTGCTTGGACCCCTGATCTTACCCGTGGGCACCCTG
CGCTCTGCCTGCCGGAAGACCGGCTCCCCGACCCGCAGAAGTCAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGG
CGGGGCAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGACAATGGGGCCGCGGCGGCTGCTGCTGGTGGCCGCC
TGCTTCAGTCTGTGCGGCCCGCTGTTGTCTGCCCCGACCCGGGCCCCGAGGCCAGAATCAAAAGCAACAAATGCC
ACCTTAGATCCCCGGTCATTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAA
AATGAAAGTGGGTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTTCCTGCA
TTCATCTCAGAAGATGCCCTCCGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCATCTGTGTACACCGGA
GTGTTTGTAGTCAGCCTCCCCTAAACATCATGGCCATCGTTGTGTTCATCCTGAAAATGAAGGTCAAGAAGCCG
GCGGTGGTGTACATGCTGCACCTGGCCACGGCAGATGTGCTGTTTGTGTCTGTGCTCCCCCTTAAGATCAGCTAT
TACTTTTCCGGCAGTGATTGGCAGTTTGGGTCTGAATTGTGTGCTTCGTCACTGCAGCATTTTACTGTAACATG
TACGCTCTATCTTGCTCATGACAGTCATAAGCATTGACCGTTTTCTGGCTGTGGTGTATCCCATGCAGTCCCTC
TCCTGGCGTACTCTGGGAAGGGCTTCCTTCACCTTGCTGCGCATCTGGGCTTTGGCCATCGCAGGGGTAGTGCCT
CTGCTCCTCAAGGAGCAAACCATCCAGGTGCCCGGGCTCAACATCACTACCTGTCTATGATGTGCTCAATGAAACC
CTGCTCGAAGGCTACTATGCCTACTACTTCTCAGCCTTCTCTGCTGTCTTCTTTTTTGTGCCGCTGATCATTTCC
ACGGTCTGTTATGTGTCTATCATTGATGTCTTAGCTCTTCCGAGTTGCCAACCGCAGCAAGAAGTCCCGGGCT
TTGTTCTGTGCTGCTGCTGTTTTCTGCATCTTCATCATTTGCTTCGGACCCACAAACGTCTCTCTGATTGCGCAT
TACTCATTCCTTTCTCACACTTCCACCACAGAGGCTGCCTACTTTGCCTACCTCCTCTGTGTCTGTGTGTCAGCAGC
ATAAGCTGCTGCATCGACCCCTAATTTACTATTACGCTTCTCTGAGTGCCAGAGGTACGTCTACAGTATCTTA
TGCTGCAAAGAAAGTTCCGATCCCAGCAGTTATAACAGCAGTGGGCAGTTGATGGCAAAGTAAAATGGATACCTGC
TCTAGTAACCTGAATAACAGCATATACAAAAGCTGTTAACTTAGGAAAAGGGACTGCTGGGAGGTTAAAAAGAA
AAGTTTATAAAAGTGAATAACCTGAGGATTCTATTAGTCCCCACCCAACTTTATTGATTACCTCCTAAAACAA
CAGATGTACGACTTGCATACCTGCTTTTTATGGGAGCTGTCAAGCATGTATTTTTGTCAATTACCAGAAAGATAA
CAGGACGAGATGACGGTGTTATTCCAAGGGAATATTGCCAATGCTACAGTAATAAATGAATGTCACCTTCTGGATA
TAGCTAGGTGACATATACATACTTACATGTGTGTATATGTAGATGTATGCACACACATATATTATTGTCAGTGCA
GTATAGAATAGGCACCTTTAAACACTCTTTCCCCGCACCCACAGCAATTATGAAAATAATCTCTGATTCCCTGATT
TAATATGCAAAGTCTAGGTTGGTAGAGTTTAGCCCTGAACATTTTCATGGTGTTTCATCAACAGTGAGAGACTCCAT
AGTTTGGGCTTGTAACACTTTTGCAAATAAGTGTATTTTGAATTGTTTGACGGCAAGGTTAAGTTATTAAGAG
GTAAGACTTAGTACTATCTGTGCGTAGAAGTTCTAGTGTTTTCAATTTTAAACATATCCAAGTTTGAATTCCTAA
AATTATGGAACAGATGAAAAGCCTCTGTTTTGATATGGGTAGTATTTTTTACATTTTACACACTGTACACATAA
GCCAAAAGTGAAGTCAAGTCTAGTGAATGTAGGCTGGCTTTTACAGAGTAGGCTATTCTGAGAGCTGCATGTG
TCCGCCCCGATGGAGGACTCCAGGCAGCAGACACATGCCAGGGCCATGTCAGACACAGATTGGCCAGAAACCTT
CCTGCTGAGCCTCACAGCAGTGAGACTGGGGCCACTACATTTGCTCCATCCTCCTGGGATTGGCTGTGAACTGAT
CATGTTTATGAGAACTGGCAAAGCAGAATGTGATATCCTAGGAGGTAATGACCATGAAAGACTTCTCTACCCAT
CTTAAAAACAACGAAAGAAGGCATGGACTTCTGGATGCCCATCCACTGGGTGTAAACACATCTAGTAGTTGTTCT
GAAATGTGAGTTCTGATATGGAAGCACCCATTATGCGCTGTGGCCACTCCAATAGGTGCTGAGTGACAGAGTGG
AATAAGACAGAGACCTGCCCTCAAGAGCAAAGTAGATCATGCATAGAGTGTGATGTATGTGTAATAAATATGTTT
CACACAAACAAGGCCTGTGAGCTAAAGAAGTTTGAACATTTGGGTTACTATTTCTTGTGGTTATAACTTAATGAA
AACAATGCAGTACAGGACATATATTTTTTAAATAAGTCTGATTTAATTGGGCACTATTTATTTACAAATGTTTT
GCTCAATAGATTGCTCAAATCAGGTTTTCTTTTAAAGATCAATCATGTGAGTCTGCTTAGAAAATAACAGAAGAAA
ATAGAATTGACATTGAAATCTAGGAAAATTATCTATAATTTCCATTTACTTAAGACTTAATGAGACTTTAAAAAG
CATTTTTTAACTCCTAAGTATCAAGTATAGAAAATCTTCATGGAATTCACAAAGTAATTTGGAAATTAGGTTGA
AACATATCTCTTATCTTACGAAAAAATGGTAGCATTTTAAACAAAATAGAAAGTTGCAAGGCAAAATGTTTATTTA
AAAGAGCAGGCCAGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAG
GTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCGCTCTCTACTAAAAATGCAAAAAAATTAGCCGGG
CGTGGTGGCAGGCACCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGACTGGCGTGAACCCAGGAGGCGGA
CCTTGATGAGCCGAGATCGCGCCACTGTGCTCCAGCCTGGGCAACAGAGCAAGACTCCATCTC

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FIGURE 1609

GAAGAGGCGAGAACGACCCCCGGTCCGACCAAAGCCGCGCGCCGCTGCGTCCC GCGTCCAGCACCTATGTCCCG
CTGCCGTCGCTGCCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCACGCCTAAAAGGC
CCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGAAATAACCC
TGCAGGAAATGGAGATGCCAAAACAGACCAGGCGCAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTG
CATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGAAATACTATTTTTTATCAAGTTTTATAAAAATGC
AGAATTTTGTTTTATTTTATTTTATTTTTTTTTAAAGCTATGTTGTTAGCACATAGAACACTTCATTGTTGTTTT
GGGGGAAGGGGCATATGTCGCTAATAGAATGTCTCCAAAGCTGGATTGATGTGGAGGATTCCCTGACTTTGACAC
ACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATT

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FIGURE 1610

GGCGAGAACGACCCCCGGTCCGACCAAAGCCCGCGCGCGCTGCGTCCCGCGTCCAGCACCTATGTCCCGCTGCC
GTCGCTGCCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAA
CCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCACGCCTAAAAGGCCCTG
CAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGATTCCCTGACTTTG
ACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTTATGTCCTCGTCTCCCTT
TCCCTCTTTTACGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTAGTCATTGGTTACC
AGTGTGTTAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGCAGTGGTTCTGTTTC
TAGATTATGGATCTTCAGATAAATTCTGCCATTTTCATTTAACTTCCTGAAAAGTCAGGGTCGGCTTGTGAAAAGT
TGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAACTTTCCCTGTTTCAGAGCATCAGATGAAGAC
TTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACT
GTTAACGATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 1611

GGGAGATAAAGCCAAGGTGAAGGACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAA
GCCAGAGCCCACGCCTAAAAGGCCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAAGCTGAT
GCTGGCAAGGAGGGAAATAACCCTGCAGGAAATGGAGATGCCAAAACAGACCAGGCGCAGAAAGCTGAAGGTGCT
GGAGATGCCAAGTGAAGTGTGTGCATTTTTGATAACTGTGTACTTCTGGTGA CTGTACAGTTTGAAATACTATTT
TTTATCAAGTTTTATAAAAATGCAGAAATTTGTTTTATTTTATTTTATTTTTTTTAAAGCTATGTTGTTAGCACA
TAGAACA CTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCGCTAATAGAATGTCTCCAAAGCTGGATTGATGT
GGAGAAAACACCTTTCCCTTCTAGTTTTGAGAGACTTCCTCTTGGCTTCCAGGAGGAGGGATTCCCTGACTTTGA
CACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACTCCCTTAAGCCCAGACATCTGTTGGGACC
TGACCCCTAGTCATTGGTTACCAGTGTGTTAGGCAATCTGGACTTTCAGTGATGCCACTGAGATGGCACCT

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FIGURE 1612

AAACCTCGCCCAGATTCAGGCGTGTAACCAGCCGGAGCGGCGCGGCAGCGGCAGGACCGCCGTGGCGCCTAGAG
TAGCGACCCGCGGGGAGCACGGGGCGACGCTGGCTGCAGAGACCCGGTGACAGCTGTATGCTTGAAATCTTGGAT
ACTGCAGGAACGGAGCAATTTACAGCAATGAGGGATTTATACATGAAAAATGGACAAGGGTTGCATTAGTTTAT
TCCATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGAT
GATGTTCCAATGATTCTTGTGTAATAAGTGTGACTTGGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAA
AATCTAGCAAGACAATGGAACAACGTGCATTCTTAGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATC
TTTTATGACCTAGTGCGGCAAATTAACAGAAAACTCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCATGTCAG
CTGCTTTAATATACTAAATGCATTGTAGCTCTGAGCCAGGTCTGAAGAACTGTTGCCCAATTCAACAGTGCCAGC
ATTCCAACCTTTGTTAAACCTACCAACATCTTAAATGGACTTTCTGTGGTGGTACCCTTTAAGAGGCGGATGAAA
GCTACTATATCAGTTTGCACATTCTAATCACTTTCCAGTATCACAAAGAGAGATTTTTACTTATATAATAGTCCTA
GAGTATGCAGCTGGTAAAACCAGAGGCTACATCCAGTATTACTGCTAAGAGACATTCTTCATCCACCAATGTTGT
ACATGTATGAAAATGGTGTACTGTATACTTTAACATGCCCCATACTTTGTATTGGAGAGTACAATAATGTAAATC
CTAAAAGCACCACTATTTTAGCATAATAAAAGAAAGTCCAAAGAGCTCCTATATAGACTACTCCAGATAACTTCG
CTTCTTTGATACTTGTAGCTTATTGTAATTTTTTTTTAAGAAATTCAGGTCATTATTATTGTACAAAATAAGCGC
TTTGATTAAACACAGCTATATAGTTTTTTTTAATTTTTAATGTCTTAGATTAAAGACGTTGCCTTTAATATCTGTTG
GGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTTCCTTTTTTTTGTTTACATAGGGAACAATGTTTA
TAGTCGTGTGTACAGTGGGGGTCTACAACAAGAAGTGTATATT

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FIGURE 1613

MREYKLVVLGSRGVGKSALTVQFVQGIFVEKYDPTIEDSYREQVEVDAQQCMLEILD¹TAGTEQFTAMRDLYMKNG
QG²FALVYSITAQSTFNDLQDLREQILRVKDTDDIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 1614

TTGGAGCAGGCCTGCTGCCTTCATGTCCACTCTCCTCATCAATCAGCCCCAGTATGCATGGCTGAAAGAGGTGGG
GCTCCGAGAGGAAAAATGAGGGCGTGATAATGGAAGCTGGGGAGGCCGGGGAGAGGTTATTATGACCTGTTGCTC
TGCTAACAACTAGCCAATAGCAAGAGTCCGACAGGCCAGTGTGGCAGACTATGAAGAACTGTAAAGAAAGCAAC
AGAAGCATGGAAAAATCTGGGCAGATATTCCTGCTCCAAAACGAGGAGAAATAGTAAGACAGATTGACGATGCCTT
GTGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAGATGGGGAAAATCTTAGTGGAAGGTGTGGGTGA
AGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTATCAAGGATGATTGGAGGACCTATCTTGCCTTC
TGAAAGACCTGGCCATGCACTGATTGAGCAGTGGAATCCTGTAGGCCTGGTTGGAATCATCACGGCATTCAATTT
CCCTGTGGCAGTGATGGTTGGAACAACGCCATTGTCATGATCTGTGGAAATGTCTGCCTCTGGAAGGAGCTCC
AACCACCTTCCCTCATTAGTGTGGCTGTCAAAAGATAATAGCCAAGGTTCTGGAGGACAACAAGCTGCTTGGTGC
AATTTGTTTCCTTGACTTGTGGTGGAGCAGATACCGGCACAGCAATGGCCAAAGATGAACGAGTGAACCTGCTGTC
CTTCACCGGGAGCACTCAGGTGGGAAAACAGATGGCCCTGATGGTGCAGGAGAGGTTTGGGAGAAGTTTGTGGGA
ACTTGGAGGAAACAGTACCATTATTGCCTTTGAAGATGCAGACCTCAGCTTAGTTGTTCCATCAGCTCTCTTCAC
TGCTGTGGGAATAGCTGGCCAGAGGTGTACCACTGCGAGGCGACTGTTTGTACATGAAAGCATCCATCATGAGGT
TGTAACAGACTTAAAAAGGCCTACGCACAGATCCGAGTTGGGAACCCATGGGACCCTAATGTTCTCTATGGGCC
ACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGGAGCAGCGGAAGAAGCAAAGAAAGAAGGTAGCACAGTGGT
CTATGGGGGCAAGGTTATGGATCGCCCTGGAAATTATGTAGAACCGACAATTGTGACAGGTCTTGCCACGATGC
ATCCATTGCACACACAGAGACTTTTGCTCCGATTCTGTATGTCTTTAAATTCAAGAATGAAGAAGAGGTCTTTGC
ATGGAATACTGAAGTAAACAGAGACTTTCAAGTAGCAACTTTACCAAAGATCTGGGCAGAATCTTTCGCTGGCT
TGGACCTAAAGGATCAGACTGTGGCACTGTAAATGTCAACATTCCAACAAGTGGGGCTGAGATTGGAGGTGCCTT
TGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAATCTGGCAGTGATGCCTGGAAACAGTACATGAGAAGGTCTAC
TTGTACTATCAACTACAGTAAAGACTTTTCTTGGCCCAAGGAATCAAGTTTCAGTAAAGGTGTTTTAGATGAAC
ATCCCTTAATTTGAGGTGTTTCGGCAGCTGTTTTTGAAGAAGACAAAGAAAATTAAAGTTTTCTTGAATAAATGC
ATTATTATGACTGTGACAGTGACTAATCCCCCTATGACCCCAAAGCCCTGATTAAATCAAAGACTCCTTTTTTA
AAAATCAAATAAAATTGTTACAACAT

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FIGURE 1615

CCTCTTTTTCCGGCTGGAACCAATGGAGGGTGTAGAAGAGAAGAAGGAGGTTCTTGCTGTGCCAGAAACCCCTT
AAGAAAAAGCGAAGGAATTTTCGTAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCAAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATATAGGCAAATGTACAGAACTGAA
ATTCGAGTGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCTAAATTGGCGTTTGTCATC
AGAATCAGAGGTATCAGTGCTGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATAGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATTATCTGCATGGAGGATTTGATTGATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTAGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ACTAGAAGAATGAACTAAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGA

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FIGURE 1616

MEGVEEKKKEVPAVPETLKKKRRNFVELKIKRLRKKFAQMLRKARRKLIYEKAKHYHKEYRQMYRTEIRVARMA
RKAGNFYVPAEPKLAFFVIRIRGISAVSPKVRKVLQLLRQLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRKFKEANNFLWPFKLSSPRGGMKKKTT
HFVEGRDAGNREDQINRLTRMN

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FIGURE 1617

GCACCATGGCGGTTGGCAAGAACAAGCACCTTACGAAAGGCAGCAAAAAGGGGGCCAAGAAGAAAGTGGTTGATC
CATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAATATAAGAAATATTGGAAAGATGCTCA
TCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTGAAGTGAGTCTTGCTGATT
TGCAGAATGATGAAGTTGCACTTAGAAAATTCAAGCTGATTACTGAAGATGTTCAAGGTAAAACTGCCTAACTT
CCATGGCATGGATCTTACCTGTGACAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGT
TGACGTCAGGACTATTGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAGAT
ACAGAAGACCTCTTATGCCAGCACCAACGGGTCCGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGA
GGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATCCTCTCCATGATGTCTTCGTTAGAAA
AGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGG
AAAAGCCACTGGGGACGAGAGAGGTGCTAAAGTTGAACGAGCTGATGGTTTTGAACCACCAGTCCAAGAATCTGT
TTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGTGA

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FIGURE 1618

MDLTCDKMCSMVKKWQTMIEAHVDVRTIDGYLLRLFCVGFTKKRNNQIQKTSYAQHQRVRQIRKKMMEIMTRED
RQHWKRHRKGLPIYPLHDVFRKVKMLKKPKFELGKLMELHGEHSSSGKATGDERGAKVERADGFEPPVQESV

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FIGURE 1619

TTTCTGCCCATGGACACCGCCGAAGAAGCATTGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGT
CTCCTGAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGCTGAGCTTTGAAACAACTGATGAGAGCCTTG
AGGAGCCATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTCAATGAGAGATCCAAACACCAAGCACCCCAGG
GGCTTTGGGTTTGTACATATGCTACTGTGGAGGAGGTGGATGCAGCCATGAATGCAAGGCCACACAAGGTGGAT
GGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGAGAAGATTCTGAAAGACCAGGTGCCCACTTAACTGTGAAA
AAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAA
ATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGAAGAAAAGGGGCTTTGCCTTTGTAAATTTTGACGAC
CATGACTCCATGGATAAGATTGTCAATTCAGAAATACCATACTGTGAATGGCCACAACGTGAAGTTAGGAAAGCC
CCGTCACAGCAAGAGATGGATAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGTTCTGGAACTTTGGTGGTGGT
CGTGAGGTGGTTTTCGGTGGGAATGACAACTTTGGTCAATGGAGGAACTTCAGTGTTGTGGTGGCTTTGGTGGC
AGTCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCGATTTTGA
GGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAGCTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGCTAT
GGCGGTTCCAGTAGCAGCGGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGCGG
AGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGG
CCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTG
TGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAAT
GTAGATTTTTTTTTTGCACCTATGCTGTTGATTGCTAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTT
TCTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAG
AATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGAGGGAGAAGCCATTGTCTTC
AGAAACCTTGGTGTAGTIGAAGTGATAGTTACCGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCCAAGCA
AAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTAC
TAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAATGATTTAATTCT
CTTGAA

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FIGURE 1620

MRALRSHFEQWGMLTDCVVMRDPNTKHPRGFGFVTYATVEEVDAAMNARPHKVDGRVVEPKRAVSREDSERPGAH
LTVKKIFVGGIKEDTEHHLRDDFEQYGKIEVIEIMTDRGSGKKRGFAFVNFDDHDSMDKIVIQKYHTVNGHNCE
VRKAPSQQEMDSASSSQGRSGSGNFGGGRGGGFGGNDNFGHGNGNFSGCGGFGGSHGGGGYGGSGDGYNGFGNDG
SDFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPQNQGGYGGSSSSGSYGSRRF

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FIGURE 1621

CCGCCGAAGAAGCATTGTTAAAGTCTCTCTTCACCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGA
ACAGCTGAGGAAGCTCTTCATTGGAGGGCTGAGCTTTGAAACAACCTGATGAGAGCCTTGAGGAGCCATTTTGAGC
AATGGGGAATGCTCACGGACTGTGTGATTCTGAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGG
TGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGA
AATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAAATTTTGACGACCATGACTCCATGGA
TAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGGAAAGCCCCGTCACAGCAAGA
GATGGATAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTTCGTGGAGGTGGTTT
CGGTGGGAATGACAACCTTTGGTTCATGGAGGAACTTCAGTGGTTGTGGTGGCTTTGGTGGCAGTCATGGTGGTGG
TGGATAAGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCGATTTTGGAGGTGGTGGGAAGCTA
CAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAG
CTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAGCAGAAGATTTTAATTAGG

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FIGURE 1622

AAGTCTCTCTTCACCCTGCCGTGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGCTGAGCTTTGAAACAAGTATGAGAGCCTTGAGGAGCCATTTTGAGCAATGGGGAATGCTCACGGAC
TGTGTGGTCATGAGAGATCCAAACACCAAGCACCCAGGGGCTTTGGGTTTGTACATATGCTACTGTGGAGGAG
GTGGATGCAGCCATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGA
GAAGATTCTGAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAA
GAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGT
GGCAAGAAAAGGGGCTTTGCCCTTTGTAAATTTTGACGACCATGACTCCATGGATAAGATTGTCATTCAGAAATAC
CATACTGTGAATGGCCACAAGTGTGAAGTTAGGAAAGCCCCGTCACAGCAAGAGATGGATAGTGCTTCATCCAGC
CAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTTGGT
CATGGAGGAACTTCAGTGGTTGTGGTGGCTTTGGTGGCAGCTATAATGGATTTGGTAATGATGGAAGCGATTTT
GGAGGTGGTGGAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGA
AATTTTGGAGGCAGAAGCTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGC
TATG

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FIGURE 1623

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGCTGA
GCTTTGAAACAACTGATGAGAGCCTTGAGGAGCCATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTCATG
AGAGATCCAAACACCAAGCACCCCAGGGGCTTTGGGTTTGTACATATGCTACTGTGGAGGAGGTGGATGCAGCC
ATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGAGAAGATTCTGAA
AGACCAGGTGCCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTA
AGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGG
GGCTTTGCCCTTTGTAAATTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGTCATGGTGGTGGTGGATATG
GTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCGATTTTGGAGGTGGTGGGAAGCTACAATGATT
TTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG

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FIGURE 1624

CAAAGGCTACTAAGTTAATGGTATTTTCTGCACAGAAAATACCATTAACCTTAGTAGCCTTTGCTTAAAGGTGGGA
TTAATTCTCCATGAAGTCAGAATGAGACAATAAGCAGCATTAACCTTCATAGGCACACAGAACTAGTGCTCAAAC
GCTACCACCCCTTTTCAATTGCTATCTTTTGAAAGGCACCACTATTTGTTTTGCTGGGGTCTCGGGTGGACCCCTTA
TTCGCTCCGACAAGATGAAAGAAACAATCATGAACCAGGAAAACTCGCCAACTGCAGGCACAAGTGCGCATTG
GTGGGAAAGGAAGTCTCGCAGAAAGAAGAAGGTGGTTCATAGAACAGCCACAGCAGATGACAAAAAAGTTTCAAGT
TCTCCTTAAAGAAGTTAGGGGTAAACAATATCTCTGGTATTGAAGAGGTGAATATGTTTACAAACCAAGGAACAG
TGATCCACTTTAACAACCCCTAAAGTTCAGGCATCTCTGGCAGCGAACACTTTCACCATTACAGGCCATGCTGAGA
CGAAGCAGCTGACAGAAATGCTACCCAGCATCTTAAACCAGCTTGGTGCGGATAGTCTGACTAGTTTAAAGGAGAC
TGGCCGAAGCTCTGCCCAAACAATCTGTGGATGGAAAAGCACCCTTGCTACTGGAGAGGATGATGATGATGAAG
TTCCAGATCTTGTGGAGAATTTTGATGAGGCTTCCAAGAATGAGGCAAACTGAATTGAGTCAACTTCTGAAGATA
AAACCTGAAGAAGTTACTGGGAGCTGCTATTTTATATTATGACTGCTTTTTAAGAAATTCTTGTTTATGGATCTG
ATAAAATCTAGATCTCTAATATTTTTAAGCCCAAGCCCCCTTGACACTGCAGCTCTTTTCAGTTTTTGCTTATAC
ACAATTCATTCTTTGCAGCTAATTAAGCCGAAGAAGCCTTAAGTGGAATTC

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FIGURE 1625

MKETIMNQEKLAKLQAQVRIGGKGTARRKKKVVRTATADDDKKLQFSLKKLGVNNISGIEEVNMFTNQGTVIHFN
NPKVQASLAANTFTITGHAETKQLTEMLPSILNQLGADSLTSLRRLAEALPKQSVDGKAPLATGEDDDDEVDPDLV
ENFDEASKNEAN

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FIGURE 1626A

GCGGTGGCGCTGCGGAGACCCGGTCCAGACGCCTGGCGGCCGCCGGCACACAAGGCGCTTTCTAGCTCCCTCCCC
CGAGCGCACAGCCCGCCTCCTTCCGCGGCGCCTGCAGTGGCAGGCTTGCTCTGCCCTACCGTGACGCGCTCCGGA
GACGCTCTGCGGGTCTTGACACCGGGTCCGCGGCGTGGGGACGACAGACGGAGGCGAACGCCATCGGTAGCCGG
TCCGCGAGCCATCGTTCCGGGCGCAGTCCCTCTCCCCGGCTGGCCCTCCTTTCTCCGGGGCATTGCCACCGCTTC
CCTGGGCTGAGACGACCGGTTCTGTCGCCTCCTTGCCCGTGACCGTCGCTAGAACTCAGTTGTGCGTTGCGGCCAG
TCGCCACTGCTGAGTGGAACAAAATGTCAGTCACTGTGCATGAGAACCACAAGTCCAGGGCCAGCAGCGGCTCC
ATTAACATCTATCTGTTTACAAAGTCTCTACGCTGACAGCGTCTCTACTCACCTGAATCTTTTACGCCAGCAG
CGTCTCTTCACTGACGTCCTTCTCCATGCCGGAATAGGACCTTCCCTTGCCACCGGGCAGTGTGCTGCATGC
AGTCGCTACTTTGAGGCCATGTTCACTGGTGGCCTGAAAGAGAGCCAGGACAGTGAGGTCAACTTTGACAATTCC
ATCCACCCAGAAGTCTTGAGCTGCTGCTTGACTATGCGTACTCTCTCCCGGTCATCATCAATGAAGAAAATGCA
GAATCGCTCCTGGAAGCTGGTGACATGCTGGAGTTTCAAGACATCCGGGATGCATGTGCAGAGTTCTTGAAAAG
AACCTGCATCCCACCAACTGCCTGGGCATGCTGCTGCTGTCTGATGCACACCAAGTGCACCAAGCTGTACGAACTA
TCTTGAGAAATGTGCTCAGCAACTTCCAAACCATCAGGAAGAATGAAGATTTCTTCCAGCTGCCCCAGGACATG
GTAGTGCAACTCTTGTCAGTGAAGAGCTGGAGACAGAGGATGAAAGGCTTGTTGTACGAGTCTGCAATTAAGTGG
ATCAGCTATGACCTGAAGAAGCGCTATTGCTACCTCCAGAACTGTTGCAGACAGTAAGGCTGGCACTTCTGCCA
GCCATCTATCTCATGGAGAATGTGGCCATGGAGGAAGTCAACCAAGCAGAGAAAGAGTAAGGAAATTGTGGAA
GAGGCCATCAGGTGCAAACTGAAAATCCTGCAGAATGACGGTGTGGTAACCAGCCTCTGTGCCCGACCTCGGAAA
ACTGGCCATGCCCTCTTCTTCTGGGAGGACAGACTTTTATGTGTGACAAGTTGTATCTGGTAGACCAGAAGGCC
AAAGAAATCATTCCCAAGGCTGACATTTCCAGCCCAAGAAAAGAGTTTAGTGCATGTGCGATTGGCTGCAAGTG
TACATTACTGGGGGGCGGGGTCTGAAAATGGGGTCTCAAAAGATGTCTGGGTTTATGATACCCTGCACGAGGAG
TGGTCCAAGGCTGCCCCATGCTGGTGGCCAGGTTTGGCCATGGCTCTGCTGAACTGAAGCACTGCCTGTATGTG
GTTGGGGGGCACACGGCCGCAACTGGCTGCCTCCCGGCTCCCCCTCAGTCTCTCTAAAGCAGGTAGAACATTAT
GACCCCAACAATCAACAAATGGACCATGGTGGCCCACTCCGAGAAGGCGTTAGCAACGCCGCAGTAGTGAGTGCC
AACTTAAGTTATTTGCTTTCCGAGGTACAGTGTCACTCATGACAAGCTCCCCAAAGTTCAGTGTTACGATCAG
TGTGAAAACAGGTGGACTGTACCGGCCACCTGTCCCCAGCCCTGGCGTTACACAGCAGCAGCTGTGCTGGGGAAC
CAGATTTTTATTATGGGGGGTGATACAGAATTCTCTGCCTGCTCTGCTTATAAATTCAACAGTGAGACTTACCAG
TGGACCAAGGTGGGAGATGTGACAGCAAAGCGCATGAGCTGCCATGCTGTGGCCTCTGGAAACAACTCTACGTG
GTTGGAGGATACTTTGGCATTCAAGCATGCAAGACTTTGGACTGCTACGATCCAACATTAGACGTGTGGAACAGC
ATCACCCTGTCCCGTACTCGCTGATTCTTCTACTGCATTTGTGACACCTGGAAACATCTGCCTTCTTAAATGCAG
TACATTCTAAAGAGAGTGAGCATGAGCTCACTCCATCACTCGATGAGATAAATAGAGATTTCTACTTCGGAGAGG
CCAAGTCTAATGAAGAGAAAAAAGGAAAAGAAGTTGCAAGACTCGAATAAAATCTGCTGCACCTTGTAATGCT
CTAACTGGACATGAAGGAAAGGGGCGAGGGAGGGGGTGGGATTTTTTGGTGCAAGTAGCACATGGTTTAAATATG
AATGAACAAACCTGTGATCTAGTCCTTGTCTTGTAATTGTGGATTAATGTCAATGTTAATCAGCCCTCAAAGGG
AGAGAAAAGCTGGACCTTTTCCCTTGCTGTACCATATTCAAGCAATTTGATTTCATGGGCCCCACCATTATGTGT
AGAATTTGAAATGGTTGTCACCTCTCTCTGAGGACAGAGCTTGAAGCCTCCACACCAGCTGCTGCTGGAGATTCA
AAGCCCAACTGTGGGTCCGAGAGGGAAGCTGGCTGGGCTGGCTGAAGAATGAAGACCACTGGACTCTCCGTTAAT
CTCTAAGGGGTCTGCTCCCCAGGAACGTTTCTGAACAATGGGGACTTTGTTGGTAGCCATTGGTAGATGTTCTT
TTCTATTTATAAGTGACTTTAAACTTTCCCTTGGCTGTTAAGAAGTTTGTATAGATTAGCTATTTATTGTTTCG
ATGCCTGCATGCTGAAACAATGCCTACAGCTGTCTTACATGTATGGACGTGTGTGAATGGTTGTACGTTTTGCA
CATTTTGTGGCTGTTGAGATGTGCTTTGCTGCACAAACATGAAAATTTTTGAGTTACAATTTGGAGCATAACTGG
AGGGTGGGTTGGGGAGGGGTGGATTTTTTAAATGTCAAGACAGGGAAGGATGACAAAATGGAAATTTAAATGACA
TCCTAGAGGTAGAGAAACCGTGAGATCGTTTTCTCAGACTCACCAACTTTTAAATGGGATTTTATGGGGTTTGG
TTGTGCTGATAGGGTAAGGGGAGGCTGCTTTCTGCCCTTCTCCCCACTCCCATCTGATTTACTTAATTCAGTCTC
AGCTGCTGAAATTTGAAAGGACCAAAATGCTTTACAGTTTTTTTCTTTGTGTAGTATCTTGAAATCCTGGAAAA
TTCTATGGAATAGTTCTGTATATAGGGCACAAGTAAAGGCATTGTCCAAAGTTTATTTATTTATTATTACCCTA
AGAATGCTTTGCCATAACCACATTTAATGGGAAAAACGGCAGTATCACAGATGTAAATTAAGTACCAGATTTAC
TGGGCTGAACTCATTCTCTTCTGCTATATGATTTAGCAAGTTCTAGAAGGTCTCCAAGACAATAATTACATTG
GCACAATGTATACTTCAGTGCTCACCCGTAGGCAAATCTCTTTTTTAAAAAAGTCTTTGGTGCACAAGTAACACAT

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FIGURE 1626B

TTGGCCACAAAACACCAAAGAATTGTAGGCAGTGGCCCCTATTGAGAAAGTTTTCCGGTAGAGTTGGAAATCAGTT
GTGAATACATTCTTTGCTAGTTGGAGTGCTTGTTTACTAAGCATGTGCCGTCGTAGGTATTAGTGCTAGTCTCAG
ATAGGTGCTTCCCCTGAGGTGCAGGGGAAGACCAAAGTTTGCAACTCGAACTGCTTTCGTCCATGTTTCTCACAT
TGCTGTATTTTAGAAAAATAGGGGTTAAGACTGATAACAACCTTTTACATTGTGACTGTGTTTGCAATTGTCTAATG
ACAGATAAATCCTTAACATTTCTCTCCACCTTAGTACTTTAGACTAATTGTGTTTGTCCGTCCATGCCATGAATG
AGTGGGCTGTAGTTGGGCCTAAATAAATGAGCTGTTGGAAGAAAAGAATCACAGTACTTTCCAGCAGTCAGTCCC
TGGTTCCTAGATGTGTTCTAAGCAATGCAAATGTCTAATTGTCCCCCAGTGGGCATAGTCAGTGTCGTTTATATT
GTAGCAGTTACAGCTCTGTAGTTTATGATGCAAATCTGCCAAGAGAGATGTATGTGTCACTGCATGGCTTCTGAA
AGCAGGATGAATTTTCTGCAGCTGTTTCAAAGTTGGGGTCTGTTCTTGAATCCTCTATTAATTACTGTGTGTGAG
CCAGAGGGGAGCTGTGGTAAGGGTTGGGCCCCCAGCCTGTAGGGAACCTTCTGGACTCCCACTCTTTGAATCGATA
TAGGCATTTGGTCTCACTACTTGACCATTCTCACCTGTGAAACGTCCACACTTTGAAGCAAATACAATTCACA
GCACAGTACACACAAAAACCTTGGCATAAGACAGAGAAGGTTCTTCTTATTTGTGGGCTGGTTGCTGTAGAAAC
ACATAACAAAGGGCAGCCCTCCACTTCTGGTATAATTGTGTAGCCCCCTTTCTTTGGGCTTGACACCTGTCTTGA
ATAAGAGTGATTAGAGCTGCATAATGTCCCTCTCTTGGCTATTGACCATGTGGTTCACGTACAAAACCTCTGTATA
AGTTGAAGGAAAATGTTTCATGTTTCATATGTACTTGTTTGCTATGACTACATTTTGAGGTTTTGTAAAACCTGTTAT
TTTTTTTTTTTTTTCACAAATGTGAAACTGAAGGTCAATAAATTATTAGAGATTTTCTCTTC

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FIGURE 1627

CTGATCCGGGCGGGCGGGGAAGTCGGGTCCCGAGGCTCCGGCTCGGCAGACCGGGCGGAAAGCAGCCGAGCGGCC
ATGGAGCTGTGCGGGCTGGGGCTGCCCCGGCCGCCCATGCTGCTGGCGCTGCTGTTGGCGACACTGCTGGCGGCG
ATGTTGGCGCTGCTGACTCAGGTGGCGCTGGTGGTGCAGGTGGCGGAGGCGGCTCGGGCCCCGAGCGTCTCGGCC
AAGCCGGGGCGGGCGCTGTGGCCCCCTGCCGCTCTCGGTGAAGATGACCCCGAACCTGCTGCATCTCGCCCCGGAG
AACTTCTACATCAGCCACAGCCCCAATTCCACGGCGGGCCCCCTCTGCACCCTGCTGGAGGAAGCGTTTCGACGA
TATCATGGCTATATTTTTGGTTTCTACAAGTGGCATCATGAACCTGCTGAATTCCAGGCTAAAACCCAGGTTTCAG
CAACTTCTTGTCTCAATCACCCCTCAGTCAGAGTGTGATGCTTTCCCCAACATATCTTCAGATGAGTCTTATACT
TTACTTGTGAAAGAACCAGTGGCTGTCCCTTAAGGCCAACAGAGTTTGGGGAGCATTACGAGGTTTAGAGACCTTT
AGCCAGTTAGTTTATCAAGATTCTTATGGAACCTTCACCATCAATGAATCCACCATTATTGATTCTCCAAGGTTT
TCTCACAGAGGAATTTTGATTGATACATCCAGACATTATCTGCCAGTTAAGATTATTCTTAAAACTCTGGATGCC
ATGGCTTTTAATAAGTTTAATGTTCTTCACTGGCACATAGTTGATGACCAGTCTTTCCCATATCAGAGCATCACT
TTTCTGAGTTAAGCAATAAAGGAAGCTATTCTTTGTCTCATGTTTATACACCAAATGATGTCGGTATGGTGATT
GAATATGCCAGATTACGAGGAATTCGAGTCCTGCCAGAATTTGATACCCCTGGGCATACACTATCTTGGGGAAAA
GGTCAGAAAGACCTCCTGACTCCATGTTACAGTAGACAAAACAAGTTGGACTCTTTTGGACCTATAAACCCCTACT
CTGAATACAACATACAGCTTCCTTACTACATTTTTCAAAGAAATTAGTGAGGTGTTTCCAGATCAATTCATTCAT
TTGGGAGGAGATGAAGTGGAATTTAAATGTTGGGAATCAAATCCAAAAATTCAAGATTTTCATGAGGCAAAAAGGC
TTTGGCACAGATTTTAAGAACTAGAATCTTTCTACATTCAAAGGTTTTTGATATTATTGCAACCATAAACAAG
GGATCCATTGTCTGGCAGGAGGTTTTTGATGATAAAGCAAAGCTTGCGCCGGGCACAATAGTTGAAGTATGGAAA
GACAGCGCATATCCTGAGGAACCTCAGTAGAGTCACAGCATCTGGCTTCCCTGTAATCCTTTCTGCTCCTTGGTAC
TTAGATTTGATTAGCTATGGACAAGATTGGAGGAAATACTATAAAGTGGAACCTCTTGATTTTGGCGGTACTCAG
AAACAGAAACAACTTTTTCATTGGTGGAGAAGCTTGTCTATGGGGAGAATATGTGGATGCAACTAACCTCACTCCA
AGATTATGGCCTCGGGCAAGTGCTGTTGGTGAGAGACTCTGGAGTTCCAAAGATGTCAGAGATATGGATGACGCC
TATGACAGACTGACAAGGCACCGCTGCAGGATGGTCAACGTGGAATAGCTGCACAACCTCTTTATGCTGGATAT
TGTAACCATGAGAACATGTA~~AAAA~~AATGGAGGGGAAAAAGGCCACAGCAATCTGTACTACAATCAACTTTATTTTG
AAATCATGTAAATAAGATATTAGACTTTTTTGAATAAAATATTTTTATTGATTGAA

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FIGURE 1628

MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEEAARAPSVSAKPGPALWPLPLSVKMTPNLLHLAPE
NFYISHSPNSTAGPSCITLLEAFRRYHGYIFGFYKWHHEPAEFQAKTQVQQLLVSTITLQSEDAFPNISSDESYT
LLVKEPVAVLKANRVWGALRGLETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTSRHYLPVKIILKTLD
MAFNKFNVLHWHIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMVEYARLRGIRVLPEFDTPGHTLSWGK
GQKDLLTPCYSRQNKLDSEFGPINPTLNTTYSFLTTFKEISEVFPDQFIHLGGDEVEFKWESNPKIQDFMRQKG
FGTDFKKLESFYIQKVLDIATINKGSIVWQEVFDDKAKLAFGTIVEVWKDSAYPEELSRVTASGFPVILSAPWY
LDLISYGQDWRKYYKVEPLDFGGTQKQKQLFIGGEACLWGEYVDATNLTPRLWPRASAVGERLWSSKDVRDMDDA
YDRLTRHRCRMVERGIAAQPLYAGYCNHENM

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FIGURE 1629

ATGGAAGAAGATGAGTTCATTGGAGAAAAACATTCCAACGTTATTGTGCAGAATTCATTAAACATTCACAACAG
ATAGGTGATAGTTGGGAATGGAGACCATCAAAGGACTGTTCTGATGGCTACATGTGCAAAATACACTTTCAAATT
AAGAATGGGTCTGTGATGTCACATCTAGGAGCATCTACCCATGGACAGACATGTCTTCCCATGGAGGAGGCTTTC
GAGCTACCCTTGGATGATTGTGAAGTGATTGAAACTGCAGCAGCGTCCGAAGTGATTAAATATGAGTATCATGTC
TTATATTCCCTGTAGCTACCAAGTGCCTGTACTTTACTTTAGGGCAAGCTTTTTAGATGGGAGACCTTTAACTCTG
AAGGACATATGGGAAGGAGTTCATGAGTGCTATAAGATGCGACTGCTACAGGGACCATGGGACACTATTACGCAA
CAGGAACATCCAATACTTGGGCAACCCTTTTTTGTACTTCATCCCTGCAAGACGAATGAATTCATGACTCCTGTA
TTAAAGAATTCTCAGAAAATCAATAAGAATGTCAACTATATCACATCATGGCTGAGCATTGTAGGGCCAGTTGTT
GGGCTGAATCTACCTCTGAGTTATGCCAAAGCAACGTCTCAGGATGAACGAAATGTCCCTTAA

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FIGURE 1630

MEEDFIGEKTQRYCAEFIKHSQQIGDSWEWRPSKDCSDGYMCKIHFIKNGSVMSHLGASTHGQTCLPMEEAF
ELPLDDCEVIETAAASEVIKYEYHVLYSCSYQVPVLYFRASFLDGRPLTLKDIWEGVHECYKMRLQGPWDTITQ
QEHPILGQPFFVLHPCKTNEFMTPVLKNSQKINKNVNYITSWLSIVGPVVGLNLPLSYAKATSQDERNVP

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FIGURE 1631

TTTGCAGATGACGCCGCCGAGGAAAACGTGTGTACTATTAGCCATGGTCAACCCACCGTGTTCCTTCGACATTGCC
GTCGATGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTAGCTGACAAGGTCCCAAAGACAGCAGAAAATTTT
CATGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTTATG
TGTCAGGGTGGTGACTTCACACGCCATAATGGCACTAGTGGCAAGTCCATCTATGGGGAGAAAATTTGAAGATGAG
AACTTCATCCTAAAGCATAACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGCTCCCAG
TTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCATGCATGTGATCTGTGGCAAAGTGAAAGAAGGCATG
AATATTGTGGAGGTCATGGAGTGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGT
GGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGACCATTCCTTCTGTAGCTCAGGAGAGCACC
CCTCCATCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTTTTC
CTTGTTCCCTCCCATGCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACATAATAACAA

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FIGURE 1632

CTCTTTTCGCTCAGGCCCGTGGCGCCGACAGGATGGGCAAGTGTCGTGGACTTCGTACTGCTAGGAAGCTCCGTAG
TCACCGACGAGACCAGAAGTGGCATGATAAACAGTATAAGAAAGCTCATTGTTGGGCACAGCCCTAAAGGCCAACCC
TTTTGGAGGTGCTTCTCATGCAAAAAGGAATCGTGCTGGAAAAAGTAGGAGTTGAAGCCAAACAGCCAAATTCTGC
CATTAGGAAGTGTTGAAGGGTCCAGCTGATCAAGAATGGCAAGAAAATCACAGCCTTTGTACCCAATGACGGTTG
CTTGAACTTTATTGAGGAAAATGATGAAGTTCTGGTTGCTGGATTGTTGGTCGCAAAGGTCATGCTGTTGGTGATAT
TCCTGGAGTCCGCTTTAAGGTTGTCAAAGTAGCCAATGTTTCTCTTTTGGCCCTATACAAAGGCAAGAAGGAAAG
ACCAAGATCATAAATATTAATGGTGAAAACACTGTAGTAATAAATTTTCATATGCC

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FIGURE 1633

MGKCRGLRTARKLRSHRRDQKWHDKQYKKAHLGTALKANPFGGASHAKGIVLEKVGVEAKQPNSAIRKCVRVQLI
KNGKKITAFVPNDGCLNFI EENDEVLVAGFGRKGHAVGDIPGVRFKVVKVANVSLLALYKGKKERPRS

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FIGURE 1634

TTTATTTTAATTGCCGTAAAGGAAGTGTATTTTGTGTTTGTGTTTTTAACACAGCACTTTAAATCCAGTTTGTGTT
TTGTCAACTTGAAGTGAATCTCTTTTGTACTTTGGAGGTGATAAATAGTTTTCAAATCTGCTGATTTGTATAC
TGTGGCACAAGTATCTTTGAAGTTTGTATAGTGAAAGGAGACCTTCAACAATTTTAGTCTAGGCGAGAGGAATAT
TAGGAATGTGACTTCTAAATTTTACAATAGAGCAGTTATTTTAAGGTCATGGTTAACATTTCTTAAGGTTCAACT
AAAATTCAGTTAAAAATTTTCAAGAGCTACGAGGAAGTAAATCTTAGCTAAAAATTACCTGTTGTAGATAGTATTAA
TTAGATTGTTTGCAGCTATTAAATTCATCATAAAGATAAAATGAAGAACTCTCCCTTTTTTAAACA¹AAAAAAT
TATTTCTAGATTAAATAGGCTAGTAGTTATTTCTGCAGAAACAACGTATGGAAGTGAAGCCACCTATTTTTATTT
TAGACTAATTTAAACCACTTGAATGGATTCTAGGAAACATCTTAAGCTTGTGTGTTGCCTGTGGTGGTTTTTGTG
TTTGGGGGTGTTTTTGGTTTTGGTTTTGATTTTCTGTATTTTGTATCTGGGGATTTTTTGTGTTGTTGTTTTGG
TTTGGTTTTGGTTTTATATTTTGGCATGTCTATGGCAGTTAAAGTGGTATATTTTGCCTTAGATAGGGAATCA
GGTTATAATCATTGTTCTTCTCTAAAGTGCCTCTTGGGCTTTACATCAGGTCAAGGATTTTTTAGGGTTTCTCAA
AAATAGGATTCTTGTGCTAGTGTATGCATGCTGAGTAAGTCACCTTTCTGGCTCTAATTTCTGGGTGGCCATCTGTT
GTCCAGCTCTGCTGCCAAGTGGACTTTCCGAAAGCCATGTCAACTAATTTTTATATGCTAAGACAAATCGAATA
TGAAAGAGGAAGAATATTCTAGATATTCTAAGACATTTCTTAATTTGGCATCTCAGAGGAGGTAGGTGGAAAGT
AAAGGAAGAGATAATTTTGGGGGAAAATTTGTGGAAACATACAAAACGTTTTGCTTTGTATAGATGCTAAACAGA
GTGGGAGGCAGCATATTTGTAACAACAACCATTTCTGACCTTTTGAAACACAAGCTTTTGGAGAAGTCAGGGAGAG
ACACAGTATGAATAAAAGCAATTAACATTTTCTTTAATGTATATTTTTCAAAGAGGACCACGGAATCCTGTTCTC
TAACCAAGGGGCGAGTGTAGGTGGTTTTAAGCCACAGAATATTGAGATATTCTCTTGTGGTTTTGGTGGGGTG
GTGGGATGCAGAAAGTTATTAAAGATCAATTTAAGCATCAGATAGACTATCCCTTTTATTTTTTAACTTTTAGG
TTCAGGGGTACATGTGCAGGTTGTTATATAGGTAACTCATGTCAAGTGGTTTTGTTGTACAGATTATTTGTCA
CCCAGGTGCTAAGCCTAGTACCCAGTAGTTATTTTCCCTGCTCTTCTCCCTCCTCCACCCCTCCACCCCTCAAGTA
GGCCCCAGTGTCTGTTGTTCTTTCTTTGTGTCTTTGAGTTCTCATCATTTAGCTCCTACTTCTAAATGAGAACA
TGTATTTGGTTTTCTGTTCTGTGTTAGTTTGCTAAGGATAATGGCCTCCAGCTCAGATGGAATATCTCTATCATA
TAGACCTGTTGTTACAGGCGAGGATCGGATGATGGACACTGAAGTCCCTCAGCTTGCTAAGTTCAGTTGCTCTCCC
TAGCCTCCTTTTGGCTTCAGAGTCTTTTGATTCCATCTATCCTGGTATTTTTTGTGTGCTGATGTTTAGTTCTGG
ATTGGCTTCAGCTGTGCTAATAGGAAGGGCGTTGTCTTTTCAAGCAATCTTAAAGGTGGTCAATCAAAGGCCA
GAGTCTGAATCCCTTCTGTGGCTTAAATAATTTGAGGATCAAGTCCAGTGTCTTGTTAATCCCTGTTCTACTGTG
CCAGACACTATCTTGAATGCTTTTATATGTTTCAAGGTTCAAAATCGCTCTTTCATACCAGGGGATGATAGTAACGT
GTAACCTTGCAATAGATTCCCTTCATCTTAGTAATAAGATGATCAGTCTAGTTAGGACAAAATAGAGATTGAATAAA
TTAATTTTTCCAAGTTTACAGAGTAAAAATGAGCAGATCTCTGCCTGGTTTTGTGAAAAAGAGTTAGCACTGGTA
AATAGAATATTTCTACTCCTACACCATTTCTTTCAGTATATCATCACTGAAGACAGGAAGATAGGCACACAGATTC
TTCTCTGATAGTAATTCATAGTGCCTAGGTGAAAGAGATGAAGTATGTATTAAGTACAATGTGATGGCATTTA
TTATTAGATAATCCCAGGATTCTAGAAGAAAATAAAGAAGAGTGACAGTTCAGTTAGGGTGTGAACCTCCAGAG
GAGCACTGCTTAAGCTGAAGTTGAGAGCATTGTGCAAAAGCACAGTAGTCTGTTAAGAACTAGAAATAACCTAGC
TTGTGCCACTTCGGGAGTATTAAGACATAAGCCTAGAAAGGTAGGCAAAGGTTAGATCTTAGACTGTCTTGTTATT
TTTCTCATTCTGTTGATTACCTACCTCAAATTTGAATATGTTTTTCTCTGCTAACACAAAACCTACTCAAGG
GCAGAAATTTAAATTTCTCCTTGGTGTATGTGCAAAAGAAGGTTGAATATATTCATGCCTACCTTATTTTGGACTA
GGAATACAGTAGTATACCTTTCCGAAGACTTGCTGAATAGTATATAAGGTGGAGGCAACTGACTAGTTAGGTCAG
TATTTTTAGAACTCTTAATAGCTCATACTCTTGATACCAAAAGCAGCCCTGATTGTTAAAGCACACACCTGCAC
AAGAAGCAGTGATGTTGATTTACATTTCTTGGGTGCACAAAAAAATTTCTCAAAAAGCAAGGACTTACGCTT
TTTGCAAGCCCTTGAGAAGTTACTGGATCATAGGAAGCTTATAACAAGAATGGAAGATTCTTAATAACTCACT
TTCTTTGGTATCCAGTAACAGTAGATGTTCAAAATATGTAGCTGATTAATACCAGCATTGTGAACGCTGTACAAC
CTTGTGGTTATTACTAAGCAAGTTACTACTAGCTTCTGAAAAGTAGCTTCATAATTAATGTTATTTATACACTGC
CTTCCATGACTTTTACTTTGCCCTAAGCTAATCTCCAAAATCTGAAATGCTACTCCAATATCAGAAAAAAGGGG
GAGGTGGAATTATATTTCTGTGATTTTAAAGAGTACAGAGAATCATGCACATCTCTGATTAGTTTCATATATGTCT
AGTGTGTAATAAAAGTCAAGATGAAGTCTC

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FIGURE 1635

MASSSDGISLSYRPVVTGQDRMMDTEVLSLLSSVALPSLLLÄSESFDSIYPGIFCVLMFSSGLASAVLIGRALSF
QAILKGGQSKGQSLNPFCGLNNLRIKSSVLLIPVLLCQTLS

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FIGURE 1636

CGGGATTTAGATCACGTCCCGCAGGCCGGCGGAAGTAGCTGATACTCTCATTGGTTGCAAAACCTTGATCTGTGA
AAGCGGGCGTTTTTGAAGATACCGGAAGTAGAGTCACGGAGAGGTATTAAGAAATGGAGAGAAAAATAAGCAGAA
TCCACCTTGTTTTCTGAACCCAGTATAACTCATTCTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTTG
TTATTACACTTACTGATGGTCATTTCAGCATGGACTGGGACAGTTTCTGAATCAGAGATTCCCAAGAAGCTGATG
ACATGGCAATGGAAAAAGGGAAATATGTTGGTGAAGTGAAGAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATG
TATACACGTTTAATTTTTCTAAAGAGTCTTGTTATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTTCAGAC
TTGGTTCCTTCAACCTAGAGAAAGTTGAAAACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACA
CCATTGCAGAAAATCAAGCCAAAATGAGCACCTGCAGAAAGAAAATGAAAGGCTTCTGAGAGATTGGAATGATG
TTCAAGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCGGTTTATTCTGG
TGTTGAATGAGAAGAAAACAAAATCAGAAGTTTGATAATAAATTATTAAATGCAGCTCAAGAACGAGAAAAGG
ACATCAAAACAAGAAGGGGAAACTGCAATCTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTA
CTGATGAGGAAAGTGAAAACCAAAGTATCTCTCTGGGTTGGCTTCAGCTGCTGTAAGTAAAGATGATTCCATTA
TTTCAAGTCTTGATGTCAGTATGATATTGCACCAAGTAGAAAAAGGAGACAGCGAATGCAAAGAAATCTTGGGACAG
AACCTAAAATGGCTCCTCAGGAGAATCAGCTTCAAGAAAAGGAAAAGCCTGATTCTTCACTACCTGAGACGTCGA
AAAAGGAGCACATCTCAGCTGAAAACATGTCTTTAGAAACTCTGAGAAACAGCAGCCCAGAAGACCTCTTTGATG
AGATTTAAACAGTCTCAAAAAATACTTTGATGTTCACTAGACTATGTTTTCTATTCTTTTAAATGAAAAAG
GAGAATTTCAAGTCAGCAGCCGCTATTACCGTATCTTACAATTTAATTACATACACAGTGAATTGAAACCATTGT
GCAAAATGGATTACACATGTATACAAAGATACGATTTGATGATGACACTGGCACATTGAGTTCTAACTATTTCAT
TCAGCATGCCTATAATTACATAAATTGTATGAGACTTTTTGTTGCAAAGGACACATTTATCATATTCATTTCACAC
ATATTATATGTGATAGCTGTCCAACATCCTGTCTGGGAAGATTTTGAACAGGACAAAGAAAACATCATTTTAA
AATGTCTTCAGCTTTTTTTGAATAGACGTATTCAAACATATTCTGAACATTGATGTTTGAACATTTTAAATTTGTG
TGATGATGTAGAAAATATAATTTTAGTTTGTACATAAACATTGTGAAAATCTGATAATAAAATTTTGTATACATT
GAAAAAAA

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FIGURE 1637

MERKISRHLVSEPSITHFLQVSWEKTLES GFVITLTDGHS AW TGT VSESEISQEADD MAMEKGKYVGELRKALL
SGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICyclDTIAENQAKNEHLQKENER
LLRDWNDVQGRFEKCVSAKEALETDL YKRFILVLNEKKT KIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADR
DPVYDESTDEESENQTDLSGLASAAVSKDDSIISL DVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKEKPD
SSLPETSKKEHISAENMSLET LRNSSPEDLFDEI

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FIGURE 1638

CGGGATTTAGATCACGTCCCGCAGGCCGGCGGAAGTAGCTGATACTCTCATTGGTTGCAAAACCTTGATCTGTGA
AAGCGGGCGTTTTGGAAGATACCGGAAGTAGAGTCACGGAGAGGTAGGATCCGGAAGTGGGGCTGCCTCTTTAAA
TAACAAAAATCTGAGGTATTAAGAAATGGAGAGAAAAATAAGCAGAATCCACCTTGTTTCTGAACCCAGTATAAC
TCATTTTCTACAAGTATCTTGGGAGAAAAACACTGGAATCTGGTTTTGTTATTACACTTACTGATGGTCATTGAGC
ATGGACTGGGACAGTTTCTGAATCAGAGATTTCCCAAGAAGCTGATGACATGGCAATGGAAAAAGGGAAATATGT
TGGTGAACCTGAGAAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATGTATACACGTTTAATTTTTCTAAAGAGTC
TTGTTATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTGAGACTTGGTTCCTTCAACCTAGAGAAAGTTGA
AAACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACACCATTCAGAAAAATCAAGCCAAAAATGA
GCACCTGCAGAAAAGAAAATGAAAGGCTTCTGAGAGATTGGAATGATGTTCAAGGACGATTTGAAAAATGTGTGAG
TGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCGGTTTATTCTGGTGTTGAATGAGAAGAAAAACAAAAATCAG
AAGTTTGCATAATAAATTATTAATGCAGCTCAAGAACGAGAAAAGGACATCAAACAAGAAGGGGAAACTGCAAT
CTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTACTGATGAGGAAAGTGAAAAACCAACTGA
TCTCTCTGGGTTGGCTTCAGCTGCTGTAAGTAAAGATGATTCCATTATTTCAAGTCTTGATGTCAGTATATTGC
ACCAAGTAGAAAAAGGAGACAGCGAATGCAAAGAAATCTTGGGACAGAACCTAAATGGCTCCTCAGGAGAATCA
GCTTCAAGAAAAGGAAAAGCCTGATTCTTCACTACCTGAGACGTCGAAAAAGGAGCACATCTCAGCTGAAAACAT
GTCTTTAGAACTCTGAGAAACAGCAGCCCAGAAGACCTCTTTGATGAGATTTAACAGTCTCAAAAAATACTTTG
ATGTTCACTAGACTATGTTTTCTATTCTTTTAAAATGAAAAAGGAGAATTTCAAGTCAGCAGCCGCTATTA
CCGTATCTTACAATTTAATTACATACACAGTGAATTGAAACCATTGTGCAAAATGGATTACACATGTATACAAAG
ATACGATTTGATGATGACACTGGCACATTGAGTTCTAAACTATTTCATTGAGCATGCCTATAATTACATAAATTGT
ATGAGACTTTTTGTTGCAAAGGACACATTTATCATATTTCATTACACATATTATATGTGATAGCTGTCCAACATC
CTGTCTGGGAAGATTTTGAAAACAGGACAAAAGAAAACATCATTTTAAAATGTCTTCAGCTTTTTTTGAATAGACG
TATTCAAACATATTCTGAACATTGATGTTTGAACATTTTAATTTGTGTGATGATGTAGAAAATATAATTTTAGTT
TGTACATAAACATTGTGAAAATCTGATAATAAAATTTTGTGATACATTGAAAAAAA

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FIGURE 1639

MERKISRHLVSEPSITHFLQVSWEKTLES GFVITLTDGHS AW TGT VSESEISQEADD MAMEKGKYVGELRKALL
SGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICYC LDTIAENQAKNEHLQKENER
LLRDWNDVQGRFEKCVSAKEALETDL YKR FILVLNEKKTKIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADR
DPVYDESTDEESENQTDLSGLASAAVSKDDSI ISSLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKEKPD
SSLPETSKKEHISAENMSLET LRNSSPEDLFDEI

AGGTTAAACAGCAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCTCTGAGAAGAATCGACCTTTAAAGGG
TAGAATTAATTTAGTTCTCAGCAGAGAAGCTCAAGGAACCTCCACAAGGAGCTCATTCTTTCCAGAAGTCTAGA
TGATGCCTTAAAACTTACTGAACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGCAGTTC
TGTTTATAAGGAAGCCATGAATCACCCAGGCCATCTTAACTATTTGTGACAAGGATCATGCAAGACTTTGAAAG
TGACACGTTTTTTTCCAGAAATTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCTGATGT
CCAGGAGGAGAAAAGCATTAAGTACAAATTTGAAGTATATGAGAAGAATGATTAATATGAAGGTGTTTTCTAGTT
TAAGTTGTTTCCCCCTCCCTCTGAAAAAGTATGTATTTTTACATTAGAAAAGGTTTTTTGTTGACTTTAGATCTA
TAATTATTTCTAAGCAACTAGTTTTTATTCCCCACTACTCTTGTCTCTATCAGATACCATTTATGAGACATTCTT
GCTATAACTAAGTGCTTCTCCAAGACCCCAACTGAGTCCCCAGCACCTGCTACAGTGAGCTGCCATTCCACACCC
ATCACATGTGGCACTCTTGCCAGTCCTTGACATTGTCTGGGCTTTTACATGTTGGTAATATTTATTAAAGATGAA
GATCCACATACCCCTCAACTGAGCAGTTTCTACTAGTGGAATACCAAAGCTTCCCTACGTGTATATCCAGAGGTT
TGTAGATAAATGTTGCCACCTTGTTTGTAAACAGTGAAAAATTGAAAACAACCTGGAAGTCCAGTGATGGGAAAAAT
GAGTATGTTTCTGTCTTAGATTGGGGAACCCAAAGCAGATTGCAAGACTGAAATTTTCAGTGAAAGCAGTGATTTT
GCTAGGTCTATACAGAAATCATCAATTGAGGTACGGAGAACTGAACTGAGAAGGTAAGAAAAGCAATTTAAAGT
CAGCGAGCAGGTTCTCATTGATAACAAGCTCCATACTGCTGAGATACAGGGAAATGGAGGGGGGAAAGCTGGAGT
ATTGATCCCGCCCCCTCCTTGTTGTGACGCTCCCTGTCTGTGTGTGGGCGGAACATAGTCCAGCTGCTCTATA
GCAAGTCTCAGGTGTTTGCAGTAAGAAGCTGCTGGCATGCACGGGAACAGTGAATGCCAAACACTTAAAGCAATT
CGATGTTTAAAGTATGTAAGTCTTTTTTTTTTTAGACAGCGTTTCGCTCTTGTTGCCAGGCTAGCATGCAATGGT
GTGACCTCGGCTTACTGCAACCTCCGCCTTCCAGATTCAAGCGATTCTCCTGCCTCAGGCTCCCAAGTAGCTAG
GACCAGGTGCGCGCCACCACGCCCGGCTAATTTTTGTATTTTGTATTTTGTAGTAGAGATGGGGTTTTACCATGTT
GGTCAGGCTAGTCTCGAACTCGTGACCGCAAGCGATTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACCGGC
TTGAGCCACCACACCCGGCACATCTTCATTCTTTTTATGTAGTAAAAAGTATAAGGCCACACATGGTTTATTGTA
AGTATTTTATAATTTAAAAAATACAGAAGCAGGAAAACCAATTATAAGTTCAAGTGAGGGATGATGGTTGCTTG
AACCAAAGGGTTGCATGTAGTAAGAAAATTGTGATTTAAGATATATTTTAAAGTTATAAGTAGCAGGATATTCTGA
TGGAGTTTGACTTTGGTTTTGGGCCCAGGGAGTTTCAGATGCCTTTGAGAAATGAATGAAGTAGAGAGAAAAATAA
AAGAAAAACCAGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCGCTTTGGGAGGCTAAGGCAGGCAGATCACT
TGAGACCAGCTTGGGCAACATGGCAAAAGCCCCATCTCTACAAAAACACAAAAATTAGCTGGGCATTGTGGCGCA
CACCTGTATTCCCATCTAGTCAGGAAGCTGAGATGGAAGAATTAATTGAGCCACGAGTTCAAGGCTGCAGTGAG
TCGTGATTGTGCCACTGCACCTCCAGCCGGGGTGACAGAAGAGACCTTGTCTCGAAAAGGAATCTGAAAACAATGG
AACCATGCCTTCATAATTCTAGAAAAGTTATTTTCAACTGATAAATCTATATTACCCAAATAATCAAGGGTGAAG
GTAAAATAATACATTTTTAGACAAGCAAAGACTCAGGGGTACCTCCATGTGCCCTTTTTAGGGAAGCTGTTGGA
GAAAATACTCCAGCAAAATGAAGGAGTACACAAACCAGAGAATGACATGAATCCAGCAATAGGATCCAACACAG
GCAATATTCCAGCTATGGAGCTAGCTTTAAAAAGGAACAGTAAAAATATTAATCGGTTAGCTGGGTGGAATGGCC
CATGCCTGTAGTCCCAGCTACTCAGGAGGCTCAGCAGCAGGACGACTTGAGCCCAAGAGTTCCAGACCAGCCTGG
CCACCTTAGTGAGATCCCTTCTCTTAAAAATAATAACTTATTGCCAGATTGTTGGGGCATTGGAAGAAGTTTATT
GAAGATAAAGCAAAAGTAAAAAAGAGTAAAAAAGAGTAAAAAAGAGTAAAAAAGAGTAAAAAAGAGTAAAAAAGAGT
GAAAGAAGTACAGGATAGGAAGAGCATAATACACTGTTTTTCTCAACAAGGAGCAGTATGTACACAGTCATAATG
ATGTGACTGCTTAGCCCCATAATATGGTAACTACTCTGGGACAATATGGGAGGAAAAGTGAAGATTGTGATGGTG
TAAGAGCTAAATCCTCATCTGTATATCCAGAAATCACTATATAATATATAATGAATGACTAAGTTATGTG
AGGAAAAAACAGAAGACATTGCTAAAAGAGTTAAAAGTCATTGCTCTGGAGAATTAGGAGGGATGGGGCAGGGG
ACTGTTAGGATGCATTATAAACTGAAAAGCCTTTTTTAAATTTTATGTATTAATATATGCATTCACTTGAAAAAC
TAAAAAACAATAATTTGAAAAAACCCATGAAGGTAACCGGAAGGAAAAACTAAGAGAATGAAAAGTATT
TGCCTCTGGAAGAACAACCTGGCAGGACTGTTGTTTTTATTGTAAAGACTTTTGGAGCCATTTAATTGTACTTAAC
CATTTTCATCTATTTCTTTAATAAGAACAATTCCATCTTAATAAAGAGTTACACTTGTTAATA

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FIGURE 1641

TTACCTTCTACTGAAGAGGTTGTGGTCATTCTCTGGAAATATCTGAATTCATTCCTGAGCGGTGGCCAGGGCAGG
TCCCCGTTCTTGCCGATGCCCATGTTCTGGGACACAGCGACGATGCAGTTTAGCGAACCAACCATGACAGCAGCG
GGAGGACCTCCGAGCCCGCTCGTTACAGCAGAACGCGCGGTCAAGTTTGGCGCGAAATTGTGGCCGCCCCGCCCC
CTCGTCCCTATTTGTGCAGGCGAGGCCCCGCCCCCGCCCCGGCGCACGCAGGGTCGCGGCGTGCTCGCGCCCG
CAGACGCCTGGGAAGTGC GGCCG

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FIGURE 1642A

CTCCAATACCGCAGGAGGGCGGTCTTCCCCGGCTCGCCAACTCGGCTGCTCTGGGGGATTCTGTGCGCGGTAAGAA
GCTGCGCGGTAGCGCGGTGAGGTGAGGTTCTCAGCCACCAAAGCTGCAGGGTCTCGTCGTTTCGTTCCCTCTGGCC
TGGCGGAACCTTGCCTGGGAAGCTGGGAGGACAGAAGGCTTAGCCGCTGGGTCCCTGAGCTGGCTGGAGCGCGGGC
TGTCTAGGGGCGGCGACCTCAGCTGTTGGGCTCCGGCTGCTGGGGGCTGTGCGTCCAGCCGCCCTGGAATCCGCC
TGTGGGTGGGCCGCTTGGCTCTCCCACTTCACCCTCTTGATAACCCAGAGCCTCCCCCTTCCACGTACGTAGGG
GAAGGATAATCTACTTCCTTTTGAACAGCTTCGGTCCCCACTATGACAGTCGCATAAACTTCAGCGAAGAGTGCG
CTGGTAAAGTGGCATGGAGTTTCTCACACCAATTCATTGGGTCCACCCTTCAGCTTCTGTGGAAGGGGTCTTTCT
GTTACTAGGAGCTGAGACTTGGGGGGTTGCCAGGGATGCTGGTCTTAAAAGGTGATAATTTAGGCCGGGCGCGGT
GGCTCACGCTGTAAATCCCAGCACTTTGGGAGGTCGAGGCGGGCAGATCTCCTGAGCTCAGGAGTTCGAGACCAC
CCTGGGCAACATGGTGAAACCCCTTCTCTACTAAAATACAAAAATTAGCTGGGCGTGGTGGCACGCGCCTGTAA
TCCCAGCTATTTCGGGAGGCTGAGGCCGAGAATCGCTTGAGCCCTGGCGGCAGAGGTTGCAGTGAGCCAAGATCG
CCCACTGCACTCCAGGTTGGGCTACAGAGTGAGACTCCGTCTCAACAACGACCACAACAACAACAAAAAGGTGG
TGGCTTAATACAGCCATGCTCCCCCTAAGAAGTGGTATAGTTATGAGAAATGGTTGGGCCGTTTCGTGGTTGTGT
GAACATCATAGTGTACTTGACAAACCTACACAGCTGGGCCGTATGGGATAGCCTGTTACTCCTAGTCTACAGAC
CTGTACAGTATAACTACTAAATACTGTAGGCAGTTGTAAAAGGATGGTGTGTATCTAAACACAGAAAAGATACTG
TAAAAATATAGTGTAAAAGAAAACATGGTACAGCTGAATAGGGCACTTACGCATGGAGCTTGAGGGCTGTCCGT
AGCTATTAAAGTGAGTCAGTGAGTGGTATGTGAGTGTGAAGGCCTACGATATTATTTAGGGTATTACTGTACACTA
CTGTAGACTTTATAAATGCGGTATGCTTAGTCTAAGTTTATTAAAAATAAGGTAATAACCTTAGCTTACTGTGCT
TTTTTAACTTTATAAATTTTAAATTAATTTTAACTCCTTGACCTTTTTTTTTTTTTTTTGGAGACGGAGTTTATTC
TCTCTGTCTCTCATTTTTTGAGACAGAGTTTTGCTCTTGTCAACCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTC
ACTGCAACGTCCACCTCTTGAGTTCAAGCGATTCTCCTGCCTCAGCTTCCCAGGTGGTGCAGCGCTGTAGCTGGG
ACTACAAGAGTGCGCCACCACGCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTGACCATGTTGGCCAG
GATGGTCTCGATATCCTGACCTTGTGATCCACCTGGCCTTGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCC
ACCATACCCGGCCCACTCTTTTGTAAATAACACTTAGCTTAAATGCTAATGTGTTGTATAGCTATATAAAAAATAT
TTTCTTTATTCCCTTACATTATTCTATAGCTTTTTCTGTAAAAATTTTTTTTTTGTGTTATAAACTAAGACACAC
ACATTGTGCTTACACCGGTCAGGAGCATCAATATCACTCTTTTCTTCTCCACATCTTGTCTACTGGAAGGTT
TTCAGGGGCGAGTAACATGAATGGAGCTGTCTCTCTATAATAACTGCTTTTTTCTGGAATACTTATAATTGTCT
AGTATTATGTACAGTACATCATTGTAAGCATTATGCTTGTATATGACTGGCATCCCAGGTTTGTTTACACCAGCA
TTACCACAGACATGAGTAATGTGTTACACTACAAGTTATGAGGGCTACAAAGTCAATAGGAATTTTTTACGCTCCA
TTATAATCATCTGAGACCAGTATCATGTGTGAGTCTGTTGACCTAAATGTTATGTAGCATGTGACTAGCTGA
TGAATCTTTGATTATGGCTGAATGTTCTCATTTCATTGCAGGAAAAAATATCCTCCAAATCACTAGGTAGTATGT
AAGTGACCAAAACTTTTTCCATTTTATGTTGGAGCCAAATCATTAGTGTTAGGATAAATTACTTCTTTATGTAT
GTGCTCTAAAATGAAAAGTTATTTCTGAATATTAAGCATATGTATTAAGAGTATAAAAACAAGATACAGATTTT
GGTGTGAAATATATCTTATGATTCAAGTCATAATTTAAATAGAATTGAAGATGATGTGAAATCACTGGGCTGGAA
GTAGCTTATACCTTGATTAGTAAGAGGAAGCCCGGGATCATCTGTGATGGTAAACACTTTTATATGTTTTACTT
ATAACTTTGCCAGGAAATTTCAACAACTTCATATTAAGGACATGATTTCTGTATACTTAGTAATCTGCTATGC
AAATTGTTGCATTGAAATGGCAGACGAAGCAAGAAGATTGGGAGAAAGTAGCTGTGGGACTTGAGATAGGAAAA
TAAACAGCCGGGAAACTGCAGAAATGTGGGAGGAATAATTGCATTTCATTGTATTACTATCTGATTATATTTTAT
GAAATAATTTGGTTTCTTAAGATAGTTTTTCAATTTTAAGCACACCTTTTTTAACTGGTGTGGCAGCTTTTCTGG
TAAGTGGTATGATTTATGTTAGAAGCATGTCTATGCAGCATATTATAGCATTAAATATGTATACAGATATCTAACT
GAAATAAAAAGTGTTTTAATAATTAAAGTTTAAACATATGGGCATATGTGACATATAGTGATATAGCATGTCTCT
TTAGTTTTGTGTTTTTGTGTTGATGGCTAACCCCATGCTTGTCTTAAAAATTGATAAGGTACCACTGATGA
AATTATGACCAGGTGGGCCCGAGTTAGTACCACATATAACAAGAGACCCTTGCCCTGCAACATCATGGGAGGACAT
GAAGAAGGGATCCTTTGAGGGAACAAGCCAAAACCTACCAAAGCGTAAACAACCTTGAAGCCAAATAGGCTATCCCT
CAAAAATGATGCACCCCAAGCAAAACATAAAAAGAACAAAAAGAGTACTTAAATGAAGATGTGAATGG
ATTATGGAATACCTAAGACAGAATTCACAGATGGTTCACAATGGGCAAATTATAGCAACAGACAGTGAGGAAGT
AAGGGAAGAAATGCAGTTGCTTTAAAGAAAGACAGTCGACGGGAAGGAAGAAGATTAAAAAGACAAGCGGCAAA
GAAAAATGCAATGGTGTGTTTCCATTGTAGAAAACCTGGTCATGGAATTGCAGATTGCCCCGCCGCCCTTGAAAA

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FIGURE 1642B

TCAAGACATGGGCACTGGGATATGTTACAGGTGTGGGTCCACAGAGCACGAAATAACCAAGTGTAAAGGCTAAAGT
AGACCCGGCTCTTGGCGAATTTCTTTTGCAAATGTTTTGTTTGTGGAGAAATGGGGCACCTGTCTAGATCTTG
TCCTGATAATCCCAAAGGACTCTATGCTGATGGTGGCGGTTGCAAACCTTGTGGCTCTGTGGAACATTTAAAGAA
AGATTGCCCTGAAAGTCAGAATTCAGAGCGAATGGTCACAGTTGGTCGCTGGGCAAAGGGAATGAGTGCAGACTA
TGAAGAAATTTTGGATGTACCTAAACCGCAAAAACCCAAAACAAAAATACCTAAAGTTGTTAATTTTTGATAACA
GCTAGCACTATCATGAGTTACTACCTCATTGTTACTTTCTAAACCAGGCCCGCTTCACGAGTTAGAGTTGAGCTC
CCCTGTAGCCAGGACTATGCTGTAGATATCAGTATGATCTGGGTGTGGCCAAAAACAATTTTCTTTATTCTGTCT
ATCAAATAGTACTTCTACCACTGTTTGGAGAAAATTGAAGAAAAGAATAAGATGATTAAATGAATTCTCTAAAG
AACATATTTTAAGAGACAGAACTTAGACATAACCAAGTAGTTGTATACCTGATTGTAACAATCATCTTTTATAAA
AGCAAAATTATGCATAAATGTAAACACCCCTAAACAAAGGGAACAAATGAATTTTGGTTATATTGTTTTCTTG
GCTCAAAGTATCAATTTATTATTATAATAGAAATTTATAAGTTGCTAGAAAGTCTATATTTTAAAGTACGGAAT
AAAAATATGTTTTCTATTAAGCAATAGAAATATTTTGTGTATAATTTTCTGAATACTTGATTCTCGATTGAAA
TATCCATTGTTTCGTTAATATCCATGTAACAATCCCATTGGAAACAAGATTTTTTGAATCCTAGATGAGAATAAA
CAGGGATTGTTTTTGTTTTAGTTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1643

MTRWARVSTTYNKRPLPATSWEDMKKGSFEGTSQNLPKRKQLEANRLSLKNDAPQAKHKKNNKKKKEYLNEDVNGF
MEYLRQNSQMVHNGQIIATDSEEVREEIAVALKKDSRREGRRLLKRQAAKKNAMVCFHCRKPGHGIADCPAALNQ
DMGTGICYRCGSTEHEITKCKAKVDPALGEFFFAKCFVCGEMHLSRSCPDNPKGLYADGGGCKLCGSVEHLKKD
CPESQNSERMVTVGRWAKGMSADYEEILDVPKPKQPKTKIPKVVNF

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FIGURE 1644

GGGGAGGCTGTGATGGGTTGACAGGTGCGTGACAGTGGGAGCTGCTCTCGGCACAAGCATGTACGGCAAAGGCAA
GAGTAACAGCAGCGCCGTCCCGTCCGACAGCCAGGCCCGGGAGAAGTTAGCACTCTACGTATATGAATATCTGCT
CCATGTAGGAGCTCAGAAATCAGCTCAAACATTTTTATCAGAGATAAGATGGGAAAAAACATCACATTGGGGGA
ACCACCAGGATTCTTACATTCTTGGTGGTGTATTTTTGGGATCTCTACTGTGCAGCTCCAGAGAGACGTGAAAC
ATGTGAACACTCAAGTGAAGCAAAAGCCTTCCATGATTACAGTGCTGCAGCAGCTCCCAGTCCAGTGCTAGGAAA
CATTCCCCCAGGAGATGGCATGCCAGTAGGTCTGTACCACCAGGGTTCCTTCAGCCTTTTATGTCACCTCGGTA
CCCTGGAGGTCCAAGGCCCCCATTGAGGATACCTAATCAGGCACTTGGAGGTGTCCCAGGAAGTCAGCCATTACT
CCCCAGTGGAAATGGATCCAACTCGACAACAAGGACATCCAAATATGGGTGGGCCAATGCAGAGAATGACTCCTCC
AAGAGGAATGGTGCCCTTAGGACCACAGAATATGGAGGTGCAATGAGACCCCCACTGAATGCTTTAGGTGGCCC
TGGAATGCCTGGAATGAACATGGGTCCAGGTGGTGGTAGACCTTGGCCAAACCAACAAATGCCAATTCAATACC
ATACTCCTCAGCATCTCCTGGGAATTATGTAGGTCTCCAGGAGGTGGAGGGCCACCAGGAACACCCATCATGCC
TAGTCCAGCAGATTCAACCAACTCTGGTGATAACATGTATACTTTAATGAATGCAGTACCTCCTGGACCTAACAG
ACCTAATTTTCCAATGGGTCTGGGTCCAGATGGTCCCATGGGTGGATTAGGAGGAATGGAGTCACATCACATGAA
TGGCTCTTTAGGCTCAGGAGATATGGACAGTATTTCCAAGAATTCTCCCAATAATATGAGCCTGAGTAATCAACC
GGGCACTCCAAGGGATGATGGCGAAATGGGGGGAAATTTCTTAAATCCTTTTTCAGAGTGAGAGTTACTCCCCTAG
CATGACAATGAGCGTGTGCATCCATTACCAAGTCTCCTCATGAAAACCACAGTGAGTCAGCCCTTCACAGAACTAC
TACGGAAGAAAATTATTATCACAGTGTACAGTTAAACAAAGGAATCTCAGTCACACCAAAACCAACCTTTTTATT
TCCTGCTCTCTCCCCTCTTTTGTGAAGAAAGCGGGTCCAAATGTGATTCAAACAACGTACGGAGTGGCATATTA
GAATTGCCCTAACTGAACTGCAAAATAATTATGTGTGTATGTATATGTGTGGGAAAGAGAATGTACTGTATATGT
GTATGTTATACAGACATATACACATACATACATTGACCCACAGGACATTGTAAAATATTATCACATGACATCTTA
AGTAGAAATAAGTAGGGACTTTTTATTCCATCCTTTTTTTTACGTTTTACATTTTAATTATTACAAGTTGCTCCTGC
CCCCTCCCTGAACTATTTTTGTGCTGTGTATATCACTGCTTTATATAAGTTATTTTTTAAGGTGAACTCAGATGTT
ATGGTTTTGTAAATGTCTGCAATCATGGATAGGAATAAAATCGCTTATTTGAGAGCTTTC

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FIGURE 1645

MYGKGKSNSSAVPSDSQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNI TLGEPPGFLHSWWCVFWDLYCAA
PERRETCEHSSEAKAFHDYSAAAAPSPVLGNIPPGDGMFVGVPVPPGFFQPFMSPRYPGGPRPPLRIPNQALGGVP
GSQPLLP SGMDPTRQQGHPNMGGPMQRMTPPRGMVPLGFPQNYGGAMRFFLNALGGPGMPGMNMGPGGGRPWPNT
NANSIPYSSASPGNYVGPPGGGGPPGTFIMPSPADSTNSGDNMYTLMNAVPPGPNRPNFPMGPGSDGPMGGLGGM
ESHHMNGSLGSGDMDSI SKNSPNNMSLSNQPGTPRDDGEMGGNFLNPFQSESYSPSMTMSV

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FIGURE 1646A

GAATTCCCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTTCTCTCTCTCTCTCTCTTAAGAAAGGAAAATA
TCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTTGGGAAGTGAAGTGTGCAAGT
GCTGAAGAAGGAGATTTGTTTGGAGGAAACAGGAAAGAGAAAGAAAAGGAAGGAAAAAATACATAATTTTCAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATCGGGGAGAAAAAGATTTCAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGAGACGTTGAGAAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGTAGGTCACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAGTGTCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAAAACC
CCAACCTATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCTGTTGTAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACAGGTCTGCTGGTCTCACCTGGTAACTTGAACAAGAATATGCAAGCAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATTCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTGACCTGCTTTTGAATCAAAGGATAAATAACTCCCAGTCGGCTCAGTCATTGG
CTACCCCACTGGTTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTTAACACCGCCAGCGCTC
TTCACCTTGGTTTCACTAAGTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCACTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCGTACGACGGGAGCGACCGAGAGGATCACCGGAACG
AATTCCACTCCCCATTGGACTCACAGACCTTCGCCGGACGAAAGGAAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTC
TATACCTTAATGGGGAAGGGGGGTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAGTCAAGTACTCT
GTTTTGTAAAAGTACTTTTAAATTGCCTCAGTGATACAGTATAAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACACTTGTACAAAATAGATTTTAAAGGCTAACTTCTTTTCACTGTTGTGTCTCTTG
CAAAATGTATGTTACAATAGATAGTGTATGTTGCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTCACCTGACATCCCAAGAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAGAGGACCATA
CCTATTAAAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAAATAAATAAATCTGGGTCTGCATCT
CTTATTAAATAAAAAATATAAAAAATATGTACATTACATTTTGCTTATTTTCATATAAAAGGTAAGACAGAGTTTGC
AAAGCATTGTGGCTTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCCCTGTAAAAAACCAAAAAGGACTTTTTGTATAGAAAGCACTACCCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTTTGTAGAAGTTTTGTTTTTGAAATGTGTATTTCTAATTATATAAAAT
ATTAAGAACTTTTTAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAAGTTTTGTTATCTTAATAGCGGGAGGGGGGTATATTTGTGCAGTTGCACATTTGAGTAACTATTTT
CTTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAAGGTCAGCTGTCAAAAGGATAACCTGTGGGGTTA
GAACATATCACATTGCAACACCCTAAATTGTTTTTAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTTCTTTTCATGCTATTTTTATTTTGTGTTTTTGCATTTTTATCAAATGCAGGGCCCCCTTTCTGATCT
CACCATTTACCATGCATCTTGGAAATTCAGTAAGTGCATATCCTAACTTGCCCATATTCTAAATCATCTGTTTGG
TTTTTCAGCCTAGAATTTGATACGCTTTTTAGAAATATGCCCAGAAATAGAAAAGCTATGTTGGGGCACATGTCTTG
CAAATATGGCCCTAGAAACAAGTGATATGGAATTTACTTGGTGAATAAGTTATAAATTTCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTATCCGTTTTTAATTATTTTA
ACTGACCCCTTGACAATCTTGTGAGCAATATAGGACTGTTGAACAATCCCGGTGTGTGAGGACCCCCCAATGTCAC
TTCTGCATAAAGCATGTATGTATCTATTTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCCAT

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FIGURE 1646B

AAGAACCTCTCTATGTCCCTTTTTTTAATTTAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTAAAAGATATTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAATGTGAAGATCTGTGATTTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTTACTTGCTAT
AGTTGCTATGTGTTTCTCATTGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGTGGCTAT
ATTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCCTTGTACTAATGTTTTATATATT

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FIGURE 1647

MGRKKIQITRIMDERNRQVTFTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKLQYASTDMDKVLLKYTEYNEP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESSEDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHPSLQRNSMSEGVTHRPPSAGNTGGLMGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLKNMQAKSPPMNLGMNNRKPDRLRVLIPPGSKNTMPVSSEDVDLLNQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTPSRYPQHTRHEAGRSPVDSLSSCSSSYDGSREDHRNEFHSPIGLT
RSPDERESPSVKRMRLSEGWAT

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FIGURE 1648

ATGCAGGCCCGACAAGTAATGCTAGCAGTGGCACTTTATAGCCACGGCTGCACAGAAATCAGAACATTTTCTTTA
GATTTTTTTGAAGAAGCGCATCTTTCAGATTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTGGACGAC
CTGATCATGGCTAAAGATGACCTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTA
AGAGAACGTAGAATGAAAGTAACAAATGAAGACTACATTGACTTTTCTAAAATAGAAATCAGGGAAGGTTAA

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FIGURE 1649

MQARQVMLAVALYSHGCTEIRTFSLDFLKKRIFQIHTSRMTLADDVTLDDLIMAKDDL
SGADIKAICTEAGLMAL
RERRMKVTNEDYIDFSKIEIREG

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FIGURE 1650

TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCAATCTGTCTTTCTAGCATGTTGCCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGGCTTTTGTCTGTTGGT
CTCCCTGGACTGAAGAGAGGGGAGAATAGAAGCCCAAGACTAAGATTCTCAAAATGTTTATTACCCAGAACTCTT
TGTCTGGGTCAAGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCTCG
CTCCCAAGAATCAGTTACCTCCACTTTTTTAAATCGTAACACCTCCATTTGTATTACATATGGTGTATGGGTAT
TGATGAGGTCAATGATCATATATGGGATTTTTTCTGTGTAAATCATCAAGTATAAGAAGAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGGACAAATAGGTGTCATCAAACAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAATTTACACTGTGAATCCACGTTTACAACCCCTTACAGGTGGGCCTTCAGGCCTGGTTCGCTA
CAACAATGTCTTCCACAACCTCAAACCTCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTTGAGAGGCTGAGAGTCCCCCCCCCACCCTTTTTTTTTTCAATTTAGATGTAACAAACCTAG
TAGTTTATGTTTCATCAATTGTCTGTATATCTCTATATTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTTG
AAACTCATTGTTTCCCTTGTGGTAAGTGACCGAGATGCTGCCACAGGACCTGAGACACTGATGAATGGTGTCTATT
TGGACTTTCAACATGCTCCTTGGCGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGTT
GGTACTCTGTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTCTTGTGTCTTCAGTGTGGCTTTCT
TCCTCAGTGTTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACGTAAATTTACTTACCAAATCTCTTCCCTTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAGAAAAGCAATAATTTACAGGCATTTTGAGGTGTCTCTTTGGGTTCTTTCTGTTTGAA
AGGATATTTGTGCAAAAAAAGAGCAAAACCGTTTTAAATAAACTCCCCCTGGAAAAAACCACAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAAATTGGAACAAGGTCTACAAAATCATGATACTT
TTTTAAAAGGCAGAGCATTCTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTTACATTTTGTCCCTGCTCC
CAACGAAATGGATAAAACAAAAATAAATTACCATCTACTCATGGAATGTTGTTGTGTTAGCCAGTCTGAAAGCCCA
CCTTAATTTTTATATAACTGTCTTTAGCTCTTCTTTTGACAGGGCAGGCCTTGTTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACTTCTTCGTTTTCTTCTTGCTCCCCATTGGCCTGAGTTTCTTGT
GCATTACTCCTCTCCCTCCTTCGTTAGAATAGGTATATCAGCTGTGTAAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTTGTAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAACGTCTG

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FIGURE 1651

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLFHF

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FIGURE 1652

TTTTGGCTCTCTGACCAGCACCATGGCAGTTGGCAAGAACAAGTGCCCTTACGAAAGGCGGCAAAAAGGGAGCCAA
GAAGAAAGTGGTTGATCAATTTTCTAAGAAAGATTGGTATGATGTGAAAGCATCTGCTATGTTTCAGTATAAGAAA
TATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGA
AGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGG
CAAAAAGTGCCTGAGCAACTTCCATGGCATGGATCTTACCCGTGATAAAATGTGTTCCATGGTCAAAAATGGCA
GACAATGATTGAAGCTCATGTTGATGTCAGGACTACCGATGGTTACTTGCTTCATCTGTTCTGTGTTGGTTTTAC
TAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGAT
GATGGAAATCATGACCCAGAGGTGCAGACAAATGACTTGAAAGACCCAGAGGTGCAGACAAATTACAGTGGTCA
ATAAATTGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAACCTATTTATCCTCTCCATGATGTCT
TCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCA
GTAGTTCTGGAAGAGCCACTGGGGATGAGACAAGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCC
AAGAATCTGTTTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTG

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FIGURE 1653

MAVGKNKCLTKGGKKGAKKKVVDQFSKKDWYDVKASAMFSIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGNCLSNFHGMDLTRDKMCSMVKKWQTMIEAHVDVRTTDGYLLHLFCVGF TKKRNNQI
RKTSYAQQQVRQIRKKMMEIMTPEVQTNDLKDPEVQTNYSQ

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FIGURE 1654

GCAGCCAGAAAGCTCTGGAGCATCAGGGAGACTCCAACCTTAAGGCAACAGCATGGGTGAATAAGGGCTTCCTGTG
GACTGGCAATGAGAGGCAAAACCTGGTGCTTGAGCACTGGCCCCTAAGGCAGGCCTTACAGATCTCTTACACTCG
TGGTGGGAAGAGTTTAGTGTGAAACTGGGGTGGAATTGGGTGTCCACGTATGTTCCCTTTTGCCTTACTATATGT
TCTGTCAGTTTCTTTCAGGAAAATCTTCATCTTACAACCTTGTAGGGCTGGTGTTAACTTACGACTTCACTAACTG
TGACTTTGAGAAGATTAAAGCAGCCTATCTCAGTACTATTTCTAAAGACCTGATTACATATATGAGTGGGACCAA
AAGTACCGAGTTCAACAACACCGTCTCTTG TAGCAATCGGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTT
CAATCCCACCGCCGGCTGCGCGTCGCTCGCCAAAGAAATGTTGCGCATGAAAATAAGGCTGCCTTAGCTATCTG
GTGCCCAGGCTATTTCGGAACCTCAGATAAATGCTACTCAGGCAATGAAGAAGAGGAGAAAAAGGAAAGTCACAAC
CAATAAATGTCTGGAACAAGTGTACAATTACAAGGATTGTGGCGTCGCTTCAATCGACCTTTACTGAAACAACA
GTAAACCATCTTTATTATGGTCATATTTACAGCACCAAAATAAATCATCTTTATTAAGT

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FIGURE 1655

CCGCAGCCCATCGGCATGGCTCAAGAGTTTGTGAACTGCAAAATCCAGCCTGGGAAGGTGGTTGTGTTCAATCAAG
CCCACCTGCCCCTACTGCAGGAGGGCCCAAGAGATCCTCAGTCAATTGCCCATCAAACAAGGGCTTCTGGAATTT
GTCGATATCACAGCCACCAACCACACTAACGAGATTCAAGATTATTTGCAACAGCTCACGGGAGCAAGAACGGTG
CCTCGAGTCCTTTATTGGTAAAGATTGTATAGGCGGATGCAGTGATCTAGTCTCTTTGCAACAGAGTGGGGAAGTG
CTGACGCGGCTAAAGCAGATTGGAGCTCTGCAGTAACCACAGAACAGGCCCCATGCTGACGTCCCTCCTCAAGAG
CTGGATGGCATTGCAAATGATGACAGCACTTCTGGTGGATGAATTTGGGGGCACAAACAGCTTTTTTCCTCTTTT
GGCTCAGTATTTAAAAGTGGACCAACTTGCTCTTAATCACAGGGCCAAGAAGGTTGACGGGCCATCTTGGTTTTT
TTCTGGATGTGCTCTTTGGTTTTTCAGAAGACTGTGACAAGTTCTGGCCCAGGATTCGCTCACTGACCCTCAATTG
TCCTCTTTGGCATGCGTTTCTTACTGTTCTCCATGTGTGCGCATGTCTCTACCTCTAAGCCAGTGTTTTTCAACT
ATGTTTATCCAGACTCCTTCTCCAATGATGAATCCACAGTTGGTTATCTGCTACTGCCCATTAGCTAAAATCA
TTTGCTGCTTGACTTTATGGAGTTTGTATTATGAAATCAGTGGGTATTTTGAATGTGTTCTTTCTAACTACATG
CATCTCTCCACTCAACTCCACCCCATCCCATCCACCTTGAAAATCACTGCTCTGAACCAGTGTTCTCCACCTTG
TCCTCCACAGATCTCATAGGAAATGTTCAACAATTCTGTGAAAGGTCACAGGACCCAATTGGAGAAATCATATGA
AAAGCATAGTTGGTCTTGGTGTATATGGATCAGAGGCACAAGTGCAGAGGCTGTGGTTCATGCGGAACACTCTGT
TATTTAAGATGGCTATCCAGATAATCCTGAACACTGTGTATTTATTTTATTTAGACTACCAGCAAAGATTAAAGC
ATGAAATGTAAACATCTGATAAACTTACAGCCCCCTACACCAAGAGTGTATCTGTGAAAGAGCTCCTACACTT
TGAAACTTAAGAATCCCTTATCATGAAGTTTGCCTGTTCTAGAATTGTAAGATTGTTAATTCCTTCAATCTCT
AGTGACAACACTTAATTTCTTTTCTAATAAAAAAACCTATAGATGATTCAGTG

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FIGURE 1656

ATCTTGGCGAGGCTGCGGTGTCTGCTGCTACTCTCCGAGCTTCGCAATGCCGCCCAAGGACGACGAGAAGAAGGA
CGCTGGAAAGTCAGCCAAGAAAGACAAAGACCCAGTGAACAAATCCGGGGGCAAGGCCAAAAAGAAGAAGTGGTC
CAAAGGCAAAGTTCGGGACAAGCTCAATAACTTAGTCTTGTTTGACAAAGCTACCTATGACAAACTCTGTAAGGA
AGTTCCCAACTATAAACTTATAACCCAGCTGTGGTCTCTGAGAGACTGAAGATTCGAGGCTCCCTGGCCAGGGC
AGCCCTTCAGGCAAAGCACAGAGCTCAAGTAATTTACACCAGAAATACCAAGGGTGGAGATGCTCCAGCTGCTGG
TGAAGATGCATGAATAGGTCCAACCAGCTGTACATTTGGAAAAATAAACTTTATTAAATC

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FIGURE 1657

. MPPKDDEKKDAGKSAKKDKDPV NKSGGKAKKKKWSKGKVRDKLNNLVLFDKATYDKLCKEVPNYKLITPAVVSER
LKIRGSLARAALQAKHRAQVIYTRNTKGGDAPAAGEDA

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FIGURE 1658

GACTGTACAATTTGTTCAAGGAATTTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGT
TGAAGTAGATGCACAACAGTGTATGCCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGAGGGA
TTTATACATGAAAAATGGACAAGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCACATTTAACGATTTACA
AGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGATGATGTTCCAATGATTCTTGTGGTAATAAGTGTGA
CTTGGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAACCTGTGCATTCTT
AGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATCTTTATGACCTAGTGCGGCAAATTAACAGAAAAAC
TCCAGTGCCCTGGGAAGGCTCGCAAAAAGTCATCATGTGCAGCTGCTTTAATATACTAAATGCATTGTAGCTCTGAG
CCAGGTCTGAAGAACTGTTGCCCAATTCAACAGTGCCAGCATTCCAACTTTGTAAACCTACCAACATCTTAAAT
GGACTTTCTGTGGTGGTACCCTTTAAGAGGCGGATGAAAGCTACTATATCAGTTTGCACATTCTAATCACTTTC
CAGTATCACAGAGAGATTTTTACTTTATATAATAGTCCTAGAGTTTGCAGCTGGTAAAACAGAGGCTACATCCA
GTATTACTGCTAAGAGACATTCTTCATCCACCAATGTTGTACATGTATGAAAATGGTGTACTGTATACTTTAACA
TGCCCCATACTTTGTATTGGAGAGTACAATAATGTAAATCCTAAAAGCACCCTATTTTAGCATAATAAAGAAA
GTCCAAAGAGCTCCTATATAGACTACTCCAGATAACTTCGCTTCTTTGATACTTGTAGCTTATTGTAATTTTTTT
TAAGAAATTCAGGTCATTATTATTGTACAAAAATAAGCGCTTTGATTAAACACAGCTATATAGTTTTTTTAATTTT
TAAAAAACCTGTGGAGACGGTGATCTTGTCTTTAAAAACATGATAGTCCTTTCAGTATAATGTCTTAGATTAAAGA
CGTTGCCTTTAATATCTGTTGGGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTTCCTTTTTTTGT
TTACATAGGGAACAATGTTTATAGTCGIGTGTACAGTGGGGTCTACAACAAGAAGTGTATATTTTCAAACAATT
TTTTAATGATTTAACAATTTTTGTAAATCATTTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGC
TTGCTCATGCATAAGTGTATTTGCAATACCAAAATACAGGTTTAGTATTTTTGCCTGTTAGTGATTGTTTCACA
TGTGTAACGTTTTGGTTGAGATGTTAAATGGTGGACGAGTACTGTGGATGTGAATGTGGGAAGTAATTTTAATCA
TATGTAATTGGTCACAAGGCCTAATTTGCAGTAACTATTGCTGTTTTATTAAACAATGCCTTGTTGCTTTGTATG
CATTAATGTTTGGATGTAAAGATTGTGTGTCTATCCAACAGGGAGCCACAGTATTTAAATTGACCAACCTAATGT
TACAACACTTTTGAGGTGGCCAAATGTAAACTAAAAGCCTTAATTAAAGTGGTGCAATTTTGT

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FIGURE 1659

MLEILD TAGTEQFTAMRDLYMKNQG FALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVG NKCDLED ERVV
GKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 1660

GCTCCTTCTAGGATCTCTGCCTGGTTTCGGCCCCGCTGCCTCCACTCCTGCCTCCACCATGTCCATTAGGGGACCC
AGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCACTCCTACACAAGTGGGCCCCGGTGCCC
ACATCAGCTCCTCAAGCTTCTCCCAAGTGGGCAGCAGCTGCTTTCGGGGTGGCCTGGGCGGGCGGCTGTGGTGGGG
CCAGCGGCATGGGAGGCATCACCGCGGTACAGTCAACCAGAGCCTGCTGAGCCCCCTTGTCCTGGAGGTGGACC
CCGACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCTCCTTCATAG
ACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGG
CCGGGAGCAACATGGACAACATGTTCAAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCTAGG
AGAACTGAAGCTGGAGGCGGAGCTTGGCAACATGTAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATG
AGATCAATAAGCGTGCAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGATTGTGGATGAAGCTTACATTAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGATGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAG
ATCCGGGAGCTGCAGTCTGATCTCAGACACATCTGTGGTGTGTCCATGGACAACAGCCGCTCCCTGGACATG
AACAGCGTCATCGCTGAGGTCAAGGCACAGTACGAGGAGATCGCCAACCGCAGCCAGGCCGAGGCTGAGAGCATG
TACCAGATCAAGGATGAGGAGCTGCAGAGTCTGGCTGGGAAGCATGGGGATAACCTGCGGTGCACAAAGACTAAG
ATCTCCGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGAATGAGGGCCTCAAAGGCCAGAGGGCTTTCCTG
GAGGCCGCCATTGCAGATGCCGAGCAGTGTGGAGAGCTGGCCATTAAGGATGCTAACGCCAAGTTGTCGAGCTGG
AGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGTGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAGGC
TGGCCCTGGACATCGAGATCGCCACCTACAAGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGATGC
AGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAAGTGGTCTGAGCTCGGCCTGTGGGGGCCCTCACAA
GCCCCGGCCTCAGCTACGGCCTGGGCGCCAGCTCCTTCAGCCGCACCAGCTACTCCAGGGCCGTGGTTGTGAAGA
TCGAGACACGTGATGGGAAGCTGGTGTCCGAGTCCTCTGACGTCCTGCCCAAGTGAACAGCTGTGGCAGCCCCCTC
CCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAGGGAGGTCACTATGCAGGGTAGCACTGGGAACAGGAGA
CCCACCTGAGGCTCAGCCCTAGGCCTCAGTCCACCCGCGGGGAGTTTACTGCCTGGGGACCCCCCTTTGCCCA
TGCTCCAGCTACAAAACAATTCAGTTGCTTTTTTTTTTTTTTTTTTGGTCCAAAATAAAACCTCAGCTAGCTCTGC

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FIGURE 1661

MRMRSISVQRWRMNLSSSRIVDEAYINKVELESRLLEGLTDEINFLRQLYEEEIRELQSWISDTSVVLMDNSRS
LDMNSVIAEVKAQYEEIANRSQAEAESMYQIKDEELQSLAGKHGDNLRCTKTKISEMNRNISRLQAENEGLKGQR
AFLEAAIADAEQCGELAIKDANAKLSSWRPPCSGPSRTWRGSCVSTRS

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FIGURE 1662

AGTGGGCAGCAGCTGCTTTCGGGGTGGCCTGGGCGGCGGCTGTGGTGGGGCCAGCGGCATGGGAGGCATCACCGC
GGTCACAGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGGACCCCGACATCCAGGCTGTGTGCACCCA
GGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCA
GAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGGCCGGGAGCAACATGGACAACATGTT
CAAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCTAGGAGAACTGAAGCTGGAGGCGGAGCT
TGGCAACATGTAGGGGCTGGTGGCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATGCAAG
TGGTCTGAGCTCGGCCTGTGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCGCCAGCTCCTTCAGCCG
CACCAGCTACTCCAGGGCCGTGGTTGTGAAGATCGAGACACGTGATGGGAAGCTGGTGTCCGAGTCCTCTGACGT
CCTGCCCCAAGTGAACAGCTG

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FIGURE 1663

CTGGGCGGCGGCTGTGGTGGGGCCAGCGGCATGGGAGGCATACCGCGGTCACAGTCAACCAGAGCCTGCTGAGC
CCCCTTGTCCTGGAGGTGGACCCCGACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGACGGCCGGGAGCAACATGGACAACATGTTCAAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGCTAGGAGAACTGAAGCTGGAGGCGGAGCTTGGCAACATGTAGGGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCGTGCAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT
TGTGGATGAAGCTTACATTAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGATGAGATCAACTTCCT
CAGGCAGCTGTATGAAGAGGAGATCCGGGAGCTGCAGTCCTGGATCTCAGACACATCATCGCTGAGGTCAAGGCA
CAGTACGAGGAGATCGCCAACCGCAGCCAGGCCGAGGCTGAGAGCATGTACCAGATCAAGGATGAGGAGCTGCAG
AGTCTGGCTGGGAAGCATGGGGAT

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FIGURE 1664

GCGGCCGCGGCCGTGAGCCTGCCCCAACTCGCCCTCAGCCGGCTGGCCGGCGCGGCC**ATG**GAGGTCTACATCCC
GTCCTTTCGCTATGAAGAGAGCGACCTGGAGCGGGGATACACGGTGTTTAAGATAGAAGTGCTAATGAATGGAAG
AAAACATTTTGTGAAAAGAGATACAGCGAATTTTCATGCTTTGCACAAAAAGCTTAAGAAATGTATAAAAACTCC
AGAAATCCCTTCTAAACATGTTAGGAACTGGGTCCCCAAAGTCTTGGAACAGCGACGACAAGGCTTGGAACATA
CTTACAGGCTGTCATTTTAGAAAATGAAGAACTTCCCAAAGTGTTCCTTGATTTCCTAAATGTGCGACACTTGCC
CTCTCTACCAAAGGCAGAAAGTTGTGGATCTTTTGATGAAACAGAGTCTGAAGAGTCAAGCAAAGTGTCCACCA
GCCTGTGCTGCTGTTCCCTCAGGGATCCATATGTCTTGCTGCAGCCAGCGATTTTCCAAATGTGGTTATTGAAGG
AGTCCTCCATGGGATATTTTACCCTCATCTACAGCCCAGG**TAG**AAATCCTACATGGCTAAAAGAAGCAGAAGCAA
GTTTCGAAGTCACAGTCAAGGAAATCAATACCTACCAATTTAACCTAAACGCTATGATATATAACAGCTCTAGCT
AGTGGTAAAGTGCACAGTCCCAGCTTAATTCAGGGCAGGGACATTTCCATTAGAATGGTGCTCTTAAAAATAGAA
ACTGAACCGGGGCGGTGGTCAGGCTAAGGCCAAGTGTTTAAGAAGTAGAGTGTAGCTGCCAGCGTAGAAACCCAT
GAAAAGGAGGCCACAGGAGATTCTGGGAGCACTGGGTGTAGCAAAACAAAGCCACTCTCTGCTTCAGTCGCACC
ATTTGCTAATTGAAAATCATATCCTGAATCATACTGAGACTGATCAACTTTGGTAGCTTTTTTGTTCAGATCTTA
TGACACACTACTCTTCTCACCGTGAGATTTTCTCAGCCAGTGATAGTACATTCTGAAATGCTGGCACCAGGAGAC
GGCCACAGACACACACTGCTAAATGTGAAGATGGAACTAAACTGGAAATTAAATTATACTGACAATATTATGGCA
TTTTTAAGATCATGGCATTTTTAATTTACATTAGAGTGGAGTTGCATCATACTCAGGGGTTAGCTTCCAAGGTCAG
TACATAGGTAAATGGGCTATTAGGATGATCCTTGAAAGCCCTTTAGAAGGGTGCCATGTTGGAAACCTGTACAT
CACAACAAGTAGCTTTTCCCTCCTATGTTGGAAAAAAGACTGTTTCTTTGTTTGAAGACCAAGTGAAGTTGTTGG
TGTTTGTGTTAGGGGCCATTTTGTTAAAAAAGACACATAACTTTTAACACTAGAATCAGCCCGCAAGATGCT
TGCCCCGCTAGTGGCAGATGTGAAGTGAAGGAGTGAAGCGCCACCCAGCGGATGGACAGCACCCACCTGGGT
TTACTCAAGGTGTGCATTCTTTTAGGTGGGATCGCCACAGGATTTTCATGTTATTTTCCTTACGGCTTCCTTTT
CACTGACCTCATTTGTTGAGTTAATGTAAGTTAAATGTGTCTATGATATAACTCCACTGTACATCATCCTTTGAG
TAGTAAAGGATAAAAGCATATATACTACCTATATGTATGTGCTGTATGTGGGCATTTTCATTGAGATCTAATTAAT
AGCTAGCCTATTTATGGTTATTCGTTTTAGTAAGTTCTGTGGGAGCAAGGTATTTAAATCAAACTAATAACTA
CATCATGGTTTTTATTAGGATCTAAATATTCAGGTTTTAAGCCTGCTGCAAACCTTTTAAATATTATGATAGAT
TCTGTACTACATGTGGGAAACAAGCAAGAACTAAATAATCAAATGTTGTCAACCAAAGTAATAGTTGGGTATTG
GAGATTTTTTTAAATGTTTTTATGTTATTAGCTATTTGGAGTTAAATAAAAACAGAACAAGGAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1665

MEVYIPSFYEEEDLERGYTVFKIEVLMNGRKHVFVEKRYSEFHALHKKLKKCIKTPEIPSKHVRNWWPKVLEQRR
QGLETYLQAVILENEELPKLFLDFLNVRHLP SLPKAESCGSFDETESEESSKL SHQPVLLFLRDPYVLP AASDFP
NVVIEGVLHGIFYPHLQPR

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FIGURE 1666

AGCTCGCGCAGTCGTTTCGGGTGAGCGAAGATGGCGGCCGAGAGGGAACCTCCTCCGCTGGGGGACGGGAAGCCCA
CCGACTTTGAGGATCTGGAGGACGGAGAGGACCTGTTACACGACTGTCTCCACCCTAGAGTCAAGTCCATCAT
CTCCAGAACCAGCTAGTCTTCCTGCAGAAGATATTAGTGCAAACCTCCAATGGCCCAAACCCACAGAAGTTGTAT
TAGATGATGACAGAGAAGATCTTTTTGCAGAAGCCACAGAAGAAGTTTCTTTGGACAGCCCTGAAAGGGAACCTA
TCCATCCTCGGAACCTTCTCCTGCAGTCACACCTGTCACTCCTACTACACTCATTGCTCCTAGAATTGAATCAA
AGAGTATGTCTGCTCCCGTGATCTTTGATAGATCCAGGGAAGAGATTGAAGAAGAAGCAAATGGAGACATTTTTG
ACATAGAAATTGGTGTATCAGATCCAGAAAAAGTTGGTGATGGCATGAATGCCTATATGGCATATAGAGTAACAA
CAAAGACATCTCTTTCCATGTTTCAGTAAGAGTGAATTTTCAGTGAAAAGAAGATTCAGCGACTTTCTTGGTTTTGC
ACAGCAAATTAGCAAGCAAATATTTACATGTTGGTTATATTGTGCCACCAGCTCCAGAAAAGAGTATAGTAGGGA
TGACCAAGGTCAAAGTGGGTAAAGAAGACTCATCATCCACTGAGTTTGTAGAAAAACGGAGAGCAGCTCTTGA
GGTATCTTCAAAGAACAGTAAACATCCAACCTTTACTACAGGATCCTGATTTAAGGCAGTTCTTGGAAAGTTTCAG
AGCTGCCTAGAGCAGTTAATACACAGGCTCTGAGTGGAGCAGGAATATTGAGGATGGTGAACAAGGCTGCCGACG
CTGTCAACAAAATGACAATCAAGATGAATGAATCGGATGCATGGTTTGAAGAAAAGCAGCAGCAATTTGAGAATC
TGGATCAGCAACTTAGGAACTTCATGTCAGTGTTGAAGCCTTGGTCTGTGCATAGAAAAGAACTTTCAGCCAACA
CAGCTGCCTTTTGCTAAAAGTGCTGCCATGTTAGGTAATTCTGAGGATCATACTGCTTTATCTAGAGCTTTGTCTC
AGCTTGACAGAGGTTGAGGAGAAGATAGACCAGTTACATCAAGAACAAGCTTTTGCTGACTTTTATATGTTTTCAG
AACTACTTAGTGACTACATTTCGTCTTATTGCTGCAGTGAAAGGTGTGTTTGACCATCGAATGAAGTGTGGCAGA
AATGGGAAGATGCTCAAATTACTTTGCTCAAAAAACGTGAAGCTGAAGCAAAAATGATGGTTGCTAACAAACCAG
ATAAAATACAGCAAGCTAAAAATGAAATAAGAGAGTGGGAGGCGAAAGTGCAACAAGGGGAAAGAGATTTTGAAC
AGATATCTAAAACGATTGAAAAGAAGTGGGAAGATTTGAGAAAGAACGAGTGAAGGATTTTAAAACCGTTATCA
TCAAGTACTTAGAATCACTAGTTCAAACACAACAACAGCTGATAAAATACTGGGAAGCATTCTACCTGAAGCCA
AAGCCATTGCCCTAGCAATAAGATTGTTGCCGTTAAGAAGACCTTGGATGTTGTTCCAGTTATGCTGGATTCCACA
GTGAAATCATTTAAAACCATCTAAATAAACCACTATATATTTTATGAATTACATGTGGTTTTATATACACACACA
CACACACACACACACACACACACTCTGACATTTTATTACAAGCTGCATGTCCTGACCCCTTTGAATTAAG
TGGACTGTGGCATGACATTCTGCAATACTTTGCTGAATTGAACACTATTGTGTCTTAAATACTTGCACTAAATAG
TGCACTGCAAGACCAGAAAAATTTTACAATATTTTTCTTTACAATATGTTCTGTAGTATGTTTACCCTCTTTATG
AAGTGAATTACCAATGCTTTGAATAATGTTCACTTATACATTCTGTACAGAAATTACGATTTTGTGATTACAGT
AATAAAATGATATTCCTTGTG

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FIGURE 1667

MAAEREPPPLGDGKPTDFEDLEDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGPKPTEVVLDLDDREDLFA
EATEEVSLDSPEREPILSSEPSPAVTPVTPPTTLIAPRIESKSMSPVIFDRSREEIEEEEANGDIFDIEIGVSDPE
KVGDMNAYMAYRVTTKTSLSMFSKSEFSVKRRFSDFLGLHSLKASKYLHVGYIVPPAPEKSIVGMTKVKGKED
SSSTEFVEKRRALERYLQRTVKHPTLLQDPDLRQFLESSELPRAVNTQALSGAGILRMVNKAADAVNKMTIKMN
ESDAWFEEKQQQFENLDQQLRKLHVSVEALVCHRKELSANTAFAKSAAMLGNSDHTALSRALSQLAEEVEEKID
QLHQEQAFADFYMFSSELLSDYIRLIAAVKGVFDHRMKCWQKWEDAQITLLKKREAEAKMMVANKPDKIQQAKNEI
REWEAKVQQGERDFEQISKTIKKEVGRFEKERVKDFKTVIIKYLESLVQTQQQLIKYWEAFLPEAKAIA

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FIGURE 1668

AGCTCTCTGGACCTTGGAGCAGGCCTGCCGCCTTCATGTCCACTCTCCTCATCAATCAGCCCCAGTATGCGTGGC
TGAAAGAGCTGGGGCTCCGCGAGGAAAACGAGGGCGTGTATAATGGAAGCTGGGGAGGCCGGGGAGAGGTTATTA
CGACCTATTGCCCTGCTAACAACGAGCCAATAGCAAGAGTCCGACAGGCCAGTGTGGCAGACTATGAAGAACTG
TAAAGAAAGCAAGAGAAGCATGGAAAATCTGGGCAGATATTCTGTCTCCAAAACGAGGAGAAATAGTAAGACAGA
TTGGCGATGCCTTGCGGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAGATGGGGAAAATCTTAGTGG
AAGGTGTGGGTGAAGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTATCAAGGATGATTGGAGGAC
CTATCTTGCCCTTCTGAAAGATCTGGCCATGCACTGATTGAGCAGTGGAAATCCCGTAGGCCTGGTTGGAATCATCA
CGGCATTCAATTTCCCTGTGGCAGTGTATGGTTGGAACAACGCCATCGCCATGATCTGTGGAAATGTCTGCCTCT
GGAAAGGAGCTCCAACCACTTCCCTCATTAGTGTGGCTGTGACAAAGATAATAGCCAAGGTTCTGGAGGACAACA
AGCTGCCTGGTGCATTTGTTTCCTTGACTTGTGGTGGAGCAGATATTGGCACAGCAATGGCCAAAGATGAACGAG
TGAACCTGCTGTCTTCACTGGGAGCACTCAGGTGGGAAAACAGGTGGGCCTGATGGTGCAGGAGAGGTTTGGGA
GAAGTCTGTTGGAACCTTGGAGGAAAACAATGCCATTATTGCCTTTGAAGATGCAGACCTCAGCTTAGTTGTTCCAT
CAGCTCTCTTTCGCTGCTGTGGGAACAGCTGGCCAGAGGTGTACCACTGCGAGGCGACTGTTTATACATGAAAGCA
TCCATGATGAGGTTGTAAACAGACTTAAAAAGGCCTATGCACAGATCCGAGTTGGGAACCCATGGGACCCTAATG
TTCTCTATGGGCCACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGGAGCAGTGGAAGAAGCAAAGAAAGAAG
GTGGCACAGTGGTCTATGGGGGCAAGGTTATGGATCGCCCTGGAAATTATGTAGAACCGACAATTGTGACAGGTC
TTGGCCACGATGCGTCCATTGCACACACAGAGACTTTTGCTCCGATTCTCTATGTCTTTAAATTCAAGAATGAAG
AAGAGGTCTTTGCATGGAATAATGAAGTAAACAGGGACTTTCAAGTAGCATCTTTACCAAAGATCTGGGCAGAA
TCTTTCGCTGGCTTGGACCTAAAGGATCAGACTGTGGCATTGTAAATGTCAACATTCCAACAAGTGGGGCTGAGA
TTGGAGGTGCCTTTGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAGTCTGGCAGTGATGCCTGGAAACAGTACA
TGAGAAGGTCTACTTGTACTATCAACTACAGTAAAGACCTTCCTCTGGCCCAAGGAATCAAGTTTCAGTAAAGGT
GTTTTAGATGAACATCCCTTAATTTGAGGTGTTCCAGCAGCTGTTTTTGGAGAAGACAAAAGAAAATTAAAGTTTT
CCCTGAATAAATGCATTATTATGACTGTGACAGTGACTAATCCCCCTATGACCCCAAAGCCCTGATTAAATCAAG
AGATTCTTTTTTTAAAAATCAAATAAAATTGTTACAACATAGCCATAGTTACT

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FIGURE 1669

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTCCCTCGTCCGCCCTCCTTGCTCGCGGCACCGCCTCCGCCACGC
GCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTAAATCGCCT
GCATCGGATCACCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACT
TACAGGAGAAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGG
AAAATGGGGAGCAGGAGGCTGACAATGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAG
AAGGTGATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGACAGCTACGGGCAAGCGGGCAGCTGAAG
ATGATGAGGATGACACGCGCTCTCCACCACCCAACCAAACCATGAGAATTTGCAACAGGGGAGGAAAAAAGAAC
CAAAACTTCCAAGGCCCTGCTTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTGTTTGTATTTTT

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FIGURE 1670

GGGGGAACATGGCGGCTGCGGAGCCGGCGGTCCTTGCGCTCCCCAACAGCGGGCGCCGGGGGCGCGGGGGCGCCGT
CGGGCACAGTCCCGGTGCTCTTCTGTTTCTCAGTCTTCGCGCGACCCCTCGTCGGTGCCACACGGGGCGGGCTACG
AGCTGCTCATCCAGAAGTTCCTCAGCCTGTACGGCGACCAGATCGACATGCACCGCAAATTCGTGGTGCAGCTGT
TCGCCGAGGAGTGGGGCCAGTACGTGGACTTGCCCAAGGGCTTCGCGGTGAGCGAGCGCTGCAAGGTGCGCCTCG
TGCCGTTGCAGATCCAGCTCACTACCCTGGGAAATCTTACACCTTCAAGCACTGTGTTTTCTGCTGTGATATGC
AGGAAAGGTTTCAGACCAGCCATCAAGTATTTTGGGGATATTATTAGCGTGGGACAGAGATTGTTGCAAGGGGCCC
GGATTTTAGGAATTCCTGTTATTGTAAACAGAACAATACCCTAAAGGTCTTGGGAGCACGGTTCAAGAAATTGATT
TAACAGGTGTAAACTGGTACTTCCAAAGACCAAGTTTTCAATGGTATTACCAGAAGTAGAAGCGGCATTAGCAG
AGATTCGCGGAGTCAGGAGTGTTGTATTATTTGGAGTAGAACTCATGTGTGCATCCAACAACTGCCCTGGAGC
TAGTTGGCCGAGGAGTCGAGGTTACATTGTTGCTGATGCCACCTCATCAAGAAGCATGATGGACAGGATGTTTG
CCCTCGAGCGTCTCGCTCGAACC GGATCATAGTGACCACGAGTGAGGCTGTTCTGCTTCAGCTGGTAGCTGATA
AGGACCATCCAAAATTCAAGGAAATTCAGAACTCTAATTAAGGCGAGTGCTCCAGAGTCGGGTCTGCTTCCAAAG
TATAGGACATTTGAAGAACTGGTATGCTACTCACTGGTGAAGGACAGTCAGGTGAAGGACTGTAAGCCCACACAA
GCTCTTCTTATCTCTACTAGAATTAATGTTAAGTCAAAAACGGCTCCTTTTTTGCGCCTCCTAGTGAAACTTA
ACCAGCTAGACCATTTGAGTACCAGCATTTAGTTACAAACGTCAAAGGCTTCCGGTGCTGCTTACCTTCCTTTTT
TGTTAATGTGCTTTTATTTATTAATAAATTACAATGAAGATGCCTGTTTTGTCTCTACTGTGTACTCTGATCG
TATCTTTCCAAAGTGCAGACTCTTGTGAAGTTTTCTTAAATTGTTCACTTTAAAGAAAATGACGTACCAACAATG
ATTTGGCTTTTATATTACTGTAAGATGTTATAATGTTAATGTGGATGTAGTGCTTTTACTTTACAGATTGATTGG
AATAAGATTATTGCATATGAATTTACCCACAGGACTCTGAATCATGTTACCCACTCCCCTCACAATGTTGTCCAC
TTAGTGAGTTGCATTGATCTATCCGTACCAATGATGTTGAATAATTACATATCTTTCTTGACTATACTGATTTT
TTATTTTGGTCACTATTACTAAATCTCTGTTAATATTCTCTCTTTTAACTGAAAAGGGATGGGATAGAAGGGTTT
GCAATGCCATATTATTGGTGGAGGGCTGTTTTAACATCTTTGAAGTATGGCTTGCTGAATATCTTTACCAACATC
TTGAATATATATTCTAGTGTCACAAAGATTTAGCAAAAAGATAAAGCTTGGGTGGAATATCATTTTAAATGTTT
ATGTTCTGTTCTATATTTTCTTCACCTACTCTCCAAATATTGTAATGCAAAAAGTCTCAGTAATGATTTGGTAGT
ATTAATTTTGTGGTCATTGTTTCTCTTCGATAAATTTATTTTCATTAAATACTTGTTAGAGGGTTTTGAAATGTT
TTTCAAATATGTGAAATGTGAACTGCTGTCTTTTATATTAAAGTAATTAAAGAAAA

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FIGURE 1671

GCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCCGCTCCATGGCGCTCTTCGTGCGGCTGCTGGCTC
TCGCCCTGGCTCTGGCCCTGGGCCCCGCCGCGACCCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGC
AGCACAGCAGGCTCCGGGGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGCACTAATAGGA
AGTACTTCACCAACTGCAAGCAGTGGTACCAAAGGAAAATCTGTGGCAAATCAACAGTCATCAGCTACGAGTGCT
GTCCTGGATATGAAAAGGTCCCTGGGGAGAAGGGCTGTCCAGCAGCCCTACCACTCTCAAACCTTTACGAGACCC
TGGGAGTCGTTGGATCCACCACCACTCAGCTGTACACGGACCGCACGGAGAAGCTGAGGCCTGAGATGGAGGGGC
CCGGCAGCTTCACCATCTTCGCCCTAGCAACGAGGCCTGGGCCTCCTTGCCAGCTGAAGTGCTGGACTCCCTGG
TCAGCAATGTCAACATTGAGCTGCTCAATGCCCTCCGCTACCATATGGTGGGCAGGCGAGTCCCTGACTGATGAGC
TGAAACACGGCATGACCCCTCACCTCTATGTACCAGAATTCCAACATCCAGATCCACCCTATCCTAATGGGATTG
TAACTGTGAACTGTGCCCCGGCTCCTGAAAGCCGACCACCATGCAACCAACGGGGTGGTGCACCTCATCGATAAGG
TCATCTCCACCATCACCAACAACATCCAGCAGATCATTGAGATCGAGGACACCTTTGAGACCCCTTCGGGCTGCTG
TGGCTGCATCAGGGCTCAACACGATGCTTGAAGGTAACGGCCAGTACACGCTTTTGGCCCCGACCAATGAGGCCT
TCGAGAAGATCCCTAGTGAGACTTTGAACCGTATCCTGGGCGACCCAGAAGCCCTGAGAGACCTGCTGAACAACC
ACATCTTGAAGTCAGCTATGTGTGCTGAAGCCATCGTTGCGGGGCTGTCTGTAGAGACCCTGGAGGGCACGACAC
TGGAGGTGGGCTGCAGCGGGGACATGCTCACTATCAACGGGAAGGCGATCATCTCCAATAAAGACATCCTAGCCA
CCAACGGGGTGATCCACTACATTGATGAGCTACTCATCCAGACTCAGCCAAGACACTATTTGAATTGGCTGCAG
AGTCTGATGTGTCCACAGCCATTGACCTTTTCAGACAAGCCGGCCTCGGCAATCATCTCTCTGGAAGTGAGCGGT
TGACCTCCTGGCTCCCCTGAATTCTGTATTCAAAGATGGAACCCCTCCAATTGATGCCATACAAGGAATTTGC
TTCGGAACCACATAATTAAGACCAGCTGGCCTCTAAGTATCTGTACCATGGACAGACCCTGGAACTCTGGGCG
GCAAAAACTGAGAGTTTTTTGTTTATCGTAATAGCCTCTGCATTGAGAACAGCTGCATCGCGGCCACGACAAGA
GGGGGAGGTACGGGACCCTGTTACGATGGACCGGGTGTGACCCCCCAATGGGGACTGTGATGGATGTCTCTGA
AGGGAGACAATCGCTTTAGCATGCTGGTAGCTGCCATCCAGTCTGCAGGACTGACGGAGACCCTCAACCGGAAG
GAGTCTACACAGTCTTTGCTCCCAAAATGAAGCCTTCCGAGCCCTGCCACCAAGAGAACGGAGCAGACTCTTGG
GAGATGCCAAGGAACCTTGCCAACATCCTGAAATACCACATTGGTGATGAAATCCTGGTTAGCGGAGGCATCGGGG
CCCTGGTGCGGCTAAAGTCTCTCCAAGGTGACAAGCTGGAAGTCAGCTTGAAAAACAATGTGGTGAGTGTCAACA
AGGAGCCTGTTGCCGAGCCTGACATCATGGCCACAAATGGCGTGGTCCATGTCATACCAATGTTCTGCAGCCTC
CAGCCAACAGACCTCAGGAAAGAGGGGATGAACTTGACAGCTCTGCGCTTGAGATCTTCAAACAAGCATCAGCGT
TTTCCAGGGCTTCCCAGAGGTCTGTGCGACTAGCCCTGTCTATCAAAGTTATTAGAGAGGATGAAGCATTAGC
TTGAAGCACTACAGGAGGAATGCACCACGGCAGCTCTCCGCCAATTTCTCTCAGATTTCCACAGAGACTGTTTGA
ATGTTTTCAAACCAAGTATCACACTTTAATGTACATGGGCCGCACCATAATGAGATGTGAGCCTTGTGCATGTG
GGGGAGGAGGGAGAGAGATGTACTTTTTAAATCATGTTCCCCCTAAACATGGCTGTTAACCCACTGCATGCAGAA
ACTTGATGTCACTGCCTGACATTCACTTCCAGAGAGGACCTATCCCAAATGTGGAATTGACTGCCTATGCCAAG
TCCCTGGAAAAGGAGCTTCAGTATTGTGGGGCTCATAAAACATGAATCAAGCAATCCAGCCTCATGGGAAGTCTT
GGCACAGTTTTTTGTAAAGCCCTTGACAGCTGGAGAAATGGCATCATTATAAGCTATGAGTTGAAATGTTCTGTC
AAATGTGTCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGGCCCTGTCCAGGTAGAAAAGAAATGGTATGTA
GAGCTTAGATTTCCCTATTGTGACAGAGCCATGGTGTGTTTGTAAATAATAAAACCAAGAAACATA

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FIGURE 1672

MALFVRLALALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNVCAVQKVIGTNRKYFTNCKQWYQRKICG
KSTVISYECCPGYEKVPGEKGC PAALPLSNLYETLG VVGSTTTQLYTD RTEKLRPEMEGPSFTIFAPSNEAWAS
LPAEVLDSLVS NVNIELLNALRYH MVGRRVLTDELKHG MTLTSMYQNSNIQIHHPNGIVTVNCARLLKADHHAT
NGVVHLIDKVISTITNNIQQIIIEIEDTFETLRAAVAASGLNTMLEGNGQYTLLAPTNEAFEKIPSETLNRILGDP
EALRDLLNNHILKSAMCAEAI VAGLSVETLEGT TLEVGC SGDM LTINGKAIISNKDILATNGVIHYIDELLIPDS
AKTLFELAAESDVSTAIDLFRQAGLGNHLSG SERLTLLAPLNSVFKDGT PPIDA HTRNLLRNHIIKDQLASKYLY
HGQLET LGGKLRV FVYRNSLCIENSCIAAHDKRGRYGT LFTMDRVLT PPMGTVM DVLKGDNRFSMLVAAIQSA
GLTETLNREGVYTVFAPTNEAFRALPPRERSRLLGDAKELANILKYHIGDEILVSGGIGALVRLKSLQGDKLEVS
LKNNVSVNKEPVAEPDIMATNGVVHVITNVLQPPANRPQERGDELADSALEIFKQASAFSRASQRSVRLAPVYQ
KLLERMKH

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FIGURE 1673

TCAGAGTCCGGCTCAGGCTCCGGCTGCGGCTCCAGCCCGCGATGCCCAATTCCGTGACCCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCCTGGTGGGCGGCGGGACTTCAGCGCGCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCAGTGCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCCAACAACCAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCCAGATGAGCACCC
TGCATGTGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGATTGGCCCGGGCCTGGCGGGCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCTGCAGGGGCTGCCCGAGTGACGCGCTGCGGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCAGTGCTTCATGTGCAGTGACTGCGGCCTGA
ACCTCAAGCAGCGTGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCGTGAAGC
CGCCCAGGGGTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAACCTCGTCTGAGCTGGGACCCTGCTCC
CACGCCTGCTTCTTAAGGTCCCTGCTCGGCCGGTGTAAATATGTTTTACCCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTACCTGGCCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAACGTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCACTAGCGGGTTGGGGGTGGTGGTGGGGTGCTGGCAGCCTCAGGAGCGATCGCTCCCCTGGAGAGGGTGA
TTGAGTGTGAGATCACCGGGGCCCGCGCGGGCCGTCTGCACTTCTGTTCCAGGTTTTCTGGCATTCTCTGTTTC
CAGGTTTTCTTCCACCCACGAGCACTTTATTCTCTCCGAGACCCCTTTTCTTCCCCTTCTCTCTCCACCAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGTTTTAGAAAGAAAAGAACTTGCCAGGGCAGCTTT
GCCCTCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGGCGTTTACCTCGTGGTGTGTTTGCCTTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCTTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCCTATTTAGCGAGCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTCACATTCATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCAATTTTGGCAGTCTGTAAAGTAAATGTCATATGCGTTTG
TTTTAA

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FIGURE 1674

MPHSVTLRGPSFWGFRLVGGRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGESTELMTHLEAQNRIKGCHDH
LTL SVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPEDGRPSLGSPYGQPPRFVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLPRSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSFRYLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFCMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

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FIGURE 1675

CGAGCCCCCGCCGAACCGAGGCCACCCGGAGCCGTGCCAGTCCACGCCGGCCGTGCCCGGCGGCCTTAAGAACC
CGGCAACCTCTGCCTTCTTCCCTCTTCCACTCGGAGTCGCGCTCCGCGCGCCCTCACTGCAGCCCCCTGCGTCGCC
GGGACCCTCGCGCGCGACCGCCGAATCGCTCCTGCAGCAGAGCCAACATGCCATCACTCGGATGCGCATGAGAC
CCTGGCTAGAGATGCAGATTAATTCCAACCAAATCCCGGGGCTCATCTGGATTAATAAAGAGGAGATGATCTTCC
AGATCCCATGGAAGCATGCTGCCAAGCATGGCTGGGACATCAACAAGGATGCCTGTTTGTTCGGGAGCTGGGCCA
TTCACACAGGCCGATACAAAGCAGGGGAAAAGGAGCCAGATCCCAAGACGTGGAAGGCCAACTTTCGCTGTGCCA
TGAACCTCCCTGCCAGATATCGAGGAGGTGAAAGACCAGAGCAGGAACAAGGGCAGCTCAGCTGTGCGAGTGTACC
GGATGCTTCCACCTCTCACCAAGAACCAGAGAAAAGAAAGAAAGTCAAGTCCAGCCGAGATGCTAAGAGCAAGG
CCAAGAGGAAGTCATGTGGGGATTCCAGCCCTGATACCTTCTCTGATGGACTCAGCAGCTCCACTCTGCCTGATG
ACCACAGCAGCTACACAGTTCAGGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTTCGC
CATGTGCTGTGTCAGCAGCACTCTCCCCGACTGGCACATCCAGTGGAAAGTTGTGCCGGACAGCACCAGTGATCTGT
ACAACTTCCAGGTGTCAACCATGCCCTCCACCTCTGAAGCTACAACAGATGAGGATGAGGAAGGGAAATTACCTG
AGGACATCATGAAGCTCTTGGAGCAGTCGGAGTGGCAGCCAACAAACGTGGATGGGAAGGGGTACCTACTCAATG
AACCTGGAGTCCAGCCCACCTCTGTCTATGGAGACTTTAGCTGTAAGGAGGAGCCAGAAATTGACAGCCCAGGGG
GGGATATTGGGCTGAGTCTACAGCGTGTCTTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAGCCTGC
TGACCCCAAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGCACCGTAGCAGGGCCCCCTGGGCCCTCTTATTC
CTCTAGGCAAGCAGGACCTGGCATCATGGTGGATATGGTGCAGAGAAGCTGGACTTCTGTGGGCCCTCAACAGC
CAAGTGTGACCCCACTGCCAAGTGGGGATGGGGCTCCCTCCTTGGGTCATTGACCTCTCAGGGCCTGGCAGGCC
AGTGTCTGGGTTTTTCTTGTGGTGTAAGCTGGCCCTGCCTCCTGGGAAGATGAGGTTCTGAGACCAGTGTATCA
GGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCTCTGAGCCCAGCTGCCTGGAGAGGGTCTCGCTGTC
ACTGGCTGGCTCCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCAATCCCAGGGCTGGCTCTGCACT
AAGAGAAAATTGCACTAAATGAATCTCGTTCCCAAAGAACTACCCCTTTTCAGCTGAGCCCTGGGGACTGTTCC
AAAGCCAGTGAAATGTGAAGGAAAGTGGGGTCTTCGGGGCGATGCTCCCTCAGCCTCAGAGGAGCTCTACCCTG
CTCCCTGCTTTGGCTGAGGGGCTTGGGAAAAAACTTGGCACTTTTTCGTGTGGATCTTGCCACATTTCTGATCA
GAGGTGTACACTAACATTTCCCCGAGCTCTTGGCCTTTGCATTTATTTATACAGTGCCTTGCTCGGCGCCCACC
ACCCCTCAAGCCCCAGCAGCCCTCAACAGGCCCAGGGAGGGAAGTGTGAGCGCCTTGGTATGACTTAAAATTGG
AAATGTCATCTAACCATTAAGTCATGTGTGAACACATAAGGACGTGTGTAAATATGTACATTTGTCTTTTATAA
AAAGTAAATTGTT

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FIGURE 1676

MPITRMRMPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAAKHGWDINKDACLFERSWAIHTGRYKAGEKEPDPK
TWKANFRCAMNSLPDIEEVKDQSRNGSSAVRVYRMLPPLTKNQRKERKSKSSRDAKSKAKRKSCGDSSPDTFSD
GLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSTLPDWHIPVEVVPDSTSDLYNFQVSPMPSTSEATT
DEDEEGKLPEDIMKLLEQSEWQPTNVDGKGILLNEPGVQPTSVYGDFSCKEEPEIDSPGGDIGLSLQRVFTDLKN
MDATWLDSLTPVRLPSIQAIPCAP

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FIGURE 1677

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCGTCGCAGCCCCCGCCGTAGCCGCCTCCGAG
CCCGCCGCCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGCCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAGTGACGGGCAGTCTGGAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTTCCTTCTCACCTAACACTGGGAAAAAAAAATGCTAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACCTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCTGGACAGCAGGAAACAGTAACAG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAACTGACACTGTCAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAAGGTCCTTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGGAAGCGGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTTCTGAGAATCGAACCTTGGTTCCCTAACCTTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAAACTCACCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCACCCCAGTTCATCATCATC
TCTTTTACACCAAAAGGTCTGCAGGGTGTGGTAACTGTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTTCAGGACTTATTCCTTCTTGTGTTGTGTTTTTTTTTGGCCCTTGCACCAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTGTATTCTCACCCTCAATTTGTTTTTTCAGAGTTAATGGGTACATTTTAGAGTCTTC
CATTTTGTGGAATTAGATCCTCCCTTCAAATGCTGTAATTAACAACACTTAAAAAATTGAATAAAATATTGA
AACCTC

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FIGURE 1678

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAKIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWL
AGYQMNFE TAKSRVTQSNFAVG YKTDEFQLHTNVNDGTEFGGSIYQV NKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTL SALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 1679

CTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGCCGTCTCCTTAACACCGAACACCATGCCT
TCAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATT
AAGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCA
GCAATATTAAAAAAGGTCATTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTCCTGAAGATGATGAGAAC
AAAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAA
CTCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATC
AAGGGGAAAACCTCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAG
GTACGCAAAGAGAACCAGTGGTGTGAAGAGAAGTGAAATGTTGTGCCTGACACTGTAACACTGTAAGGAT

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FIGURE 1680

MPSIQLQSFDGEIFAVDVEIAKQSVTIKTTLEDLGMDDEGDDPVPLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE
NKEKQTDDIPVWDQEFLKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIIRKTFNIKNDFTEEEEA
QVRKENQWCEEK

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FIGURE 1681A

CGCTGGGATGGCCGCCACAGCTGTAGGTGCTGCTAGTGTITTAGCGCTGGTCTTTGCCGGGCGTTGAGGGCAGCTC
AGCCTCCTTGTGTTTGTCCGGTTCGCCTGTGCGTGGTACTCAAGGGCACCAGTATTCCCGCGGTCCGGCAGCATGGGT
CGGGAGTCACGCCACTATCGAAAACGATCGGCATCCCGGGGTGCTCTGGAAGTCGGTCTAGAAGTCGCTCACCC
TCAGACAAAAGAAGTAAACGTGGAGATGACAGACGGTCTAGAAGTAGAGATAGAGATAGGAGGAGAGAGAGGTCT
CGTAGCAGGGATAAAAGAAGATCTCGGTCAAGGGACAGGAAGCGTCTGAGACGTTCCAGAAGTAGAGAGAGAGAC
AGAAGCCGAGAGCGAAGAAGATCTCGAAGTAGAGACAGGAGACGCTCAAGGAGTAGAAGCCGGGGCCGGCGATCC
CGATCCTCCAGTCTTGAAATAAAAGCAAGAAAAGTGAAGATAGATCTAGGTCCAAAGAGAAAAGTATGTTGGTGGG
GAAAGTTCTAAAGAGAAAGAAAAAGACAAAGATGACAAGGAGGATGAAAAAGAAAAGATGCTGGCAACTTTGAC
CAGAATAAGCTGGAAGAAGAAATGAGAAAGCGAAAAGAAAGAGTAGAAAAATGGCGAGAAGAGCAACGTAAAAAG
GCTATGGAAAACATAGGAGAACTGAAAAAGGAAATCGAAGAGATGAAACAAGGGAAAAAGTGGAGTTTAGAGGAC
GATGATGATGACGAAGATGATCCTGCAGAAGCTGAAAAGGAGGGGAAATGAAATGGAGGGTGAGGAGTTAGATCCA
TTAGATGCTTACATGGAAGAAGTGAAGAGGAAGTAAAAAAATTTAATGAGAAAGTGTAAAAGGTGGTGGGGGA
AATGAAAAGAAAGTCTGGGCCAACGGTCACAAAAGTTGTCACTGTTGTGACAACCAAAAAAGCAGTTGTGGATTCT
GATAAGAAGAAAAGGTGAGCTGATGGAGAATGACCAGGATGCCATGGAGTATTCTTCAGAGGAGGAAGAAGTTGAT
CTTCAGACAGCCCTTACAGGGTATCAAACAAAACAGCGAAAGCTTCTAGAACCAGTTGATCATGGAAAATTGAG
TATGAGCCATTTAGGAAAACTTCTATGTTGAAGTTCCAGAAGTAGCAAAAATGTCTCAAGAAGAGGTAAATGTG
TTTCGATTGGAAATGGAGGGCATTACAGTTAAAGGAAAAGGTTGCCCCAAACCAATTAAATCCTGGGTCCAGTGT
GGAATTTCCATGAAGATCTTAAATTCCTCAAGAAGCATGGCTATGAAAAGCCCACGCCCATCCAAACCCAAGCT
ATTCTGCTATAATGTCTGGACGAGATTTGATTGGCATTGCCAAAACAGGAAGTGGAAAGACCATTGCTTTTCTG
TTGCCCATGTTTAGACACATCATGGATCAGAGGTCATTAGAGGAAGGAGAGGGGCCAATAGCTGTCATCATGACT
CCAACCTCGAGAACTGGCTTTACAGATTACTAAAGAGTGTAAGAAGTTTCCAAGACTTTGGGACTTAGAGTGGTC
TGTGTTTACGGAGGAACAGGAATCAGTGAGCAGATTGCTGAGCTGAAAAGAGGTGCTGAAATTATTGTTTGCACA
CCTGGTCGAATGATTGACATGTTAGCCGCTAACAGTGGTCCGGTCACAAATCTTCGAAGAGTGACATATGTTGTT
TTAGATGAAGCAGACAGAATGTTTGACATGGGTTTTGAACCCAGGTCATGCGCATCGTGGATAATGTTGCTCCT
GATCGACAGACGGTTATGTTTTAGCTACTTTCCCCAGAGCTATGGAGGCTTTGGCTCGCAGGATCCTCAGTAA
CCTATTGAAGTACAAGTTGGAGGCAGGAGTGTGGTTTTGCTCAGATGTGGAGCAACAAGTGATTGTGATTGAAGAA
GAAAAGAAATCTTGAAGTTACTTGAGCTTCTAGGCCATTATCAAGAGTCAGGATCTGTCATTATATTTGTGGAT
AAGCAGGAACATGCTGATGGTCTTCTTAAGGATTTAATGAGAGCATCTTATCCTTGATGCTCTTTCATGGAGGC
ATTGATCAATATGACAGAGATAGCATATAAATGACTTTAAGAATGGGACCTGCAAACCTTCTGTGGCTACCTCT
GTTGCTGCCCCAGGTCATAGATGTGAACATCTGATTCTTGTAGTAAATATAGCTGCCCCAACCATATGAGGAT
TATGTACACAGAGCAGGGCGGACTGGAAGAGCAGGAAACAAGGGTTATGCTTATACTTTTATCAGAGGATCAA
GCTCGCTATGCTGGTGACATAATTAAGCTCTTGAATTGTGAGGGACTGCAGTACCTCCTGATTAGAGAACTG
TGGAGTGATTTCAAAGATCAGCAGAAAGCTGAGGGGAAAATAATTAAGAGAGTAGTGGGTTCTCTGGTAAGGGA
TTCAAGTTTGATGAAACAGAACAAGCTTTGGCTAATGAGAGGAAGAAGTTACAAAAGCAGCTCTTGGTCTACAA
GATTCAGATGATGAGGATGCTGCAGTTGATATTGATGAGCAAAATTGAAAGCATGTTAATTCAAAGAAGAGAGTA
AAGGATATGGCTGCTCCTGGAACATCAAGTGTTCCTGCTCCAACTGCAGGAAATGCTGAGAAATTAGAAATTGCT
AAGAGATTGGCTCTTAGAATCAATGCCCAGAAGAATTTGGGCATCGAGTCTCAGGTAGATGTGATGCAGCAGGCC
ACCAATGCAATTCTTAGGGGTGGCACCATTCTGGCTCCCACTGTTTCTGCAAAAACCATTCAGAAACAACCTTGCT
GAAAAGATCAATGCCAAGCTCAATTATGTGCCGTTAGAGAAACAAGAAGAAGAGAGACAGGATGGTGGACAGAAT
GAATCTTTTAAGAGATATGAAGAAGAATTAGAGATCAATGACTTCCACAGACTGCTAGGTGGAAAGTTACCTCT
AAGGAAGCTCTGCAGAGAATCAGTGAATACTCTGAAGCCGCAATTACAATCAGAGGAACCTACTTCCCTCCTGGC
AAAGAACCCAAGGAAGGCGAGCGGAAGATTTACTTGGCAATTGAAAGTGCCAATGAAGTGGCTGTGCAGAAAGCA
AAGGCAGAAATCACCAGGCTCATAAAAGAAGAGCTGATCCGGCTGCAAAATTCATACCAACCAACAAATAAAGGA
AGATACAAAGTCTTATAGACATCCGGAAGAAAGATTTTACCTGTGCTGGTCTATGATGTATGTGGCAGTTGCTG
TCTGCAGTTTACAATGTATTGTAAATGAAGATTTTAAATCTATCTTGTGCTGATTTTTTTTAAATATAAGAAAC
TGGTACTTGGTAAAGAAATCTGTCCGTAAGTACCCCCACAATCAGTCAAACCTATATTTAAAGCCAGCCTGTTTC
AGAGTATGATGTCTTTAATGTAAACTCAAATATCAATATTTTAAATGTCCGGATAATATTCTAGAGGTTTAAAA
AATGAAAATATTTGAACCTTTCTATTGAAGACAATAAAGTACACAAGTCGTTAAGGGGCTATTCACTTTATCCTGT

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FIGURE 1681B

ACTTTCAATGAAATTGTGATCATTTCCTAAGAAAAGGTAAAATTCACTATCATATTTTGTGTCCCCACCTTGATG
TTACATGACTCTGGAACAATATGAACTGGATTTAAGAATGTTATAATAGAAGTCTTACAAAATGG

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FIGURE 1682

MGRESRHYRKRSASRGRSGSRSRSPSDKRSKRGDDRRSRSDRDRRRERSRSDKRRSRSDRKRLRRSRRE
RDRSRERRRRSRSDRRRRSRSRSGRRSRSSSPGNKSKKTENRSRSKEKTDGGESSKEKKKDKDDKEDEKEKDAGN
FDQNKLEEMRKRKERVEKWREEQRKKAMENIGELKKEIEMKQGKKWSLEDDDDDEDDPAEAEKEGNEMEGEEL
DPLDAYMEEVKKEEVKKFNMRSVKGGGGNEKKSGPTVTKVTVVTTKAVVDSKKGELMENDQDAMEYSSEEEE
VDLQTALTGYQTKQRKLLPVDHGKIEYEFPRKNFYVEVPELAKMSQEEVNVFRLEMEGITVKGKGC PKPIKSWV
QCGISMKILNSLKKHGYEKPTPIQTQAIPAIMSGRDLIGIAKTGSGKTIAFLLPMFRHIMDQRSLEEGEGPIAVI
MPTRELALQITKECKKFSKTLGLRVVCVYGGTGISEQIAELKRGAEIIVCTPGRMIDMLAANSGRVTNLRRVTY
VVLDEADRMFDMGFEPQVMRIVDNVRPDRQTVMFSAFFPRAMEALARRILSKPIEVQVGGRSVVCSDVEQQVIVI
EEEKKFLKLELLGHYQESGSVIFVVKQEHADGLLKDLMRASYPMSLHGGIDQYDRDSIINDFKNGTCKLLVA
TSAARGLDVKHLILVVNYSCPNHYEDYVHRAGRTGRAGNKGAYTFITEDQARYAGDIKALELSGTAVPPDLE
KLWSDFKDQQAEGKIIKKSSGFSKGKFKFDETEQALANERKKLQKAALGLQDSDEDAAVDIDEQIESMFNSKK
RVKDMAAPGTSSVPAPTAGNAEKLEIAKRLALRINAQKNLGIESQVDVMQATNAILRGGTILAPT VSAKTIAEQ
LAEKINAKLNYVPLEKQEEERQDGGQNESFKRYEELEINDFPQTARWKVTSKEALQRISEYSEAAITIRGTYFP
PGKEPKEGERKIYLAIESANELAVQKAKAEITRLIKEELIRLQNSYQPTNKGRYKVL

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FIGURE 1683A

GCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTCGAGATCTTCTCCGCCCCGCTACCGGGCGCCTCCTCTGCGG
CCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGGCGCTCGCGTGGA
CACCGBAAGCCCCCTCAGTAGCCTCGGCCCAAGAGGCCTGCTTTCCTACTCGCTAGCCCCGCCGGGGGTCCGTGTCC
TGTCTCGGTGGCCGGACCCGGGCCCCGAGCCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACCTGGGC
TTCCAGAGCTGCTACGTGCTGTGGCCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACCGCTGC
ACGCCGGCTTGCATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTTCTAAT
GCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAGAAAAA
TCTAACCTTGCATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGGAAGAG
CGAAATTTTACCACTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTCTTAAG
AAGCCTGTAGTTGACTGTGTTGTTTCGGTTTCCTTGTTTCTATACTGATGCAGAAAGACGATCAGTGATGGATGCA
ACACAGATTGCTGGTCTTAATTGCTTGCATTAAATGAATGAAACCACTGCAGTTGCTCTTGCATATGGAATCTAT
AAGCAGGATCTTCTGCTTAGAAGAGAAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTTATCAA
GTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAGGTAGA
AAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACATTAAGTCCAAA
ATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGCTTCAGATCTC
CCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATTTCTGGAGATG
TGCAATGATCTCTTAGCTAGAGTGAGCCACCCTTCGTAGTGTTTTGGAACAAACCAAGTTAAAGAAAGAAGAT
ATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAAATTTTTCGGT
AAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCTTATCG
CCTGCTTTCAAAGTCAGAGAATTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATTTCTCCA
GCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGTTCTTACATTT
TATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTGCTATA
GCTCAGTTTTTCAAGTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAAAGTTTCGAGTA
AATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTACAAGTCTGAGGAAAATGAGGAGCCA
ATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGTTGAAGAGCAA
CAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGGATAAA
AAGATGGACCAACCACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGAATCAG
CTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGGATAAA
CTGGAGAAGGAGCGGAATGATGCTAAGAACGCAAGTGGAGGAATATGTGTATGAAATGAGAGACAAGCTTAGTGGT
GAATATGAGAAGTTTGTGAGTGAAGATGATCGTAACAGTTTTACTTTGAAACTGGAAGATACTGAAAATTGGTTG
TATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAATAAATCTAGGTCAACCT
ATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTTTGAAGAACTAGGGAAACAGATCCAACAGTAT
ATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAAAGGTA
GAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAAGCAGAGTTTGACCATG
GATCCAGTTGTCAAGTCAAAAAGAGATTGAAGCTAAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAATTTCA
AAGCCCAAACCCAAAGTGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAATGGACCAGTGGATGGACAA
GGAGACAACCCAGGCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCTTCGGATTACAGACAAGAAGCTT
CCTGAAATGGACATTGATTGATTCCAACACTTGTTTCTATTAAAACAGACTATTATAAAGCTTTAAGTTGTCAAC
TTTGTCTAAATATCAACTAGCGCAAGTGAATACTGAAGATTTCTTAGTCAGTTTTTAGGGGATTTTCGGGGAGG
GGAAATAGGTAATGTATGGAGCATTTTCACTTCTAAATAGTTAGATACAGAAATTAAGTGCATTGTATCTTTTC
ATAATGGTACTATTTAGAAGCCAGTTAGTCTTACTGAGCTTATGCTTCACTCCTTTATGTTTAACCATGTGTCT
ACAAGAATAAGTTTGTGTTTGGAAAGTTGAGCTATAGCTACAGCTCTAGCTATCCAGCAGACTTTTCATTATGACT
TACATGGCAGGAGCTCTAATTATGCTTTAAAAATCTGTTGTGGAGATTGCTTTAAATGCTCCCTGCCTGGTGTGG
GGATGGGGTCCCCCTCTTGTGAGGGCTGGAGCATGGCACGGCATGGATTAACACGGCAGAGGAACAAAGGTGTG
CTCTGAGCTTCTTCATATTTACCTTCACCTCACCTGTGTTCTCTTCCCTCTCTCCCAATAAAAGGGCTCCCAT
TATAAATGCCATGTACTTCTCTTGGGAAAATAGACCCCTTGCTAGAGTAAGTTGTTAACTGAGGGCTTTAAAC
CTGGAGGCTCTTCTGAAAGTATGTTTCATGAATACCCCAAGCATCAAGGTCTAAATAATTTTCAGAAGATTAGAA
TTGGGTAGATATACTGTTGGATATAGCCATGGTAAATTTAACTGAGGAATTAATCCTTGTTAATTTTGGTGTAA

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FIGURE 1683B

AGATTTGTATCCTGGCCTGTTTATTCAGGTGGGAGATGTTCTGTATAATTTTGAGGTATAGCTTGAACCTCTAGA
ACAAGAGTTAAAAGTTCTTTTAGCTCATTACAAATCACTTGTGTGTTAAGTGTTAATATCTGTCATGAACCTGC
CAATTTGTACGTGTTAAGCAGCTGACAGATGATGCAAAAAAACTAAGATACACTGGATTGTACTGGATGAGTCT
GAAATTAGTGTAAAGAAGTGTGGTGCCTGATGTTATAACAACACCTCATTCTTAACTGTGTGGCCAATGTCAGG
TATACCAAAGCATTCCCTCTGACTGCTTTTTGGGGCAGTGTTGACAGGAGTGAGGCATTTTGGAAACTCCAAGGGA
AGCCTGTGTTTGAGGCCAGAGTTGGTACCTGCTTTAAGAACTGTTACAGGGCTTGTGGTAATGTTTTGAATCT
TTGTAAAAATTGATATTCTGTATAACAGAGTGCTCTCTGTTACTTTTGGCCTATGTTGTTAGAAATAAGATGCT
ATCTTGCAAGTTAGAAATTAAGCGTTTGTCCATCTCTAGATAACATTGAAAAGTTTGAGTGTTACAGGCTCTAAA
GTGCAATGGAGAACAATTGCTTAGGAGGAGGAAGGGGAAAGTATACTTATGTTGGTGTGTAAGCATGCATGGAGG
CCTCGAGGCACCACAACAAGGCCAGGTTCTTAGCACATCCTCTGTTCTCTACCTGTCATGCTTCAAGAGTTCCAG
CTGGCCTGCTGTGAAGCCAGTAGCTATTTTAAAAGTGCTGGCTGCAGGATTAAGCCAACCCCTTACAACCTGGCCC
AGACCGTAATGGCCATTTCTTCTTAAAAAATAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
GGTGTGTGTGTGTGTGTGTGTGGGGAAGGGTGTGGGTGCTGGGATGGGGGTGAATTTCAAGTTGAAACACGATGA
TGTGGTCTGCTTGCTCTCTGCTTAGACAGGCTTTAAGACCAATTGGATTTTCATGGAGGCCAGGACAGAGAGTGG
TAATTGATGGCTTGTGTACAGACAAGCATTATCCAGGTTGCGTTATCCAACTGATTTGTTAAAGCTCCAGGTC
ACGTTCTTACACTAAGAAAATCATTACAGTAAACATGAGACAAGTTTAGGAAAACTAATAAAATAAACCTGTCTT
AAACTTG

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FIGURE 1684

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVSVPCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDCTLGGRKFDEVLVNHFCCEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVFREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEEP METDQNAKEEEKMQVD
QEEPHVEEQQQQTPAENKAEESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLP IENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEK FVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQSESEERPKLFEELGKQIQYMKI ISSFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSP IISKPKPKVEPPKEEQKNAEQNGPVDGQGDNP GPQAAEQGTDTA
VPSDSKKLPEMDID

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FIGURE 1685

GACTGTCTACATTAGTAATTCCTCAACTTGGGTCCGAAAGTGAACCTTTTGCTGAAGCGAAGTAGCTAACCGCTTCC
ATGTGCAAGGCAGGTTCCAGACTTCGGGGTGAGGAGGATTAAGTGAAGGACCCCAGGGGAACCGGTGTGCTCACT
GATCCGCCCTCCAGGGCCACCGCCATGTCGAGCCGCGGTGGGAAGAAGAAGTCCACCAAGACGTCCAGGTCTGCCA
AAGCAGGAGTCATCTTTCCCGTGGGGCGGATGCTGCGGTACATCAAGAAAGGCCACCCCAAGTACAGGATTGGAG
TGGGGGCACCCGTGTACATGGCCGCCGTCTTGGGAATACCTGACAGCGGAGATTCTGGAGCTGGCTGGCAATGCAG
CGAGAGACAACAAGAAGGGACGGGTACACCCCCGGCACATCCTGCTGGCTGTGGCCAATGATGAAGAGCTGAATC
AGCTGCTAAAAGGAGTCACCATAGCCAGTGGGGGTGTGTTACCCAACATCCACCCCGAGTTGCTAGCGAAGAAGC
GGGGATCCAAAGGAAAGTTGGAAGCCATCATCACACCACCCCCAGCCAAAAGGCCAAGTCTCCATCCAGAAGA
AGCCTGTATCTAAAAAGCAGGAGGCAAGAAAGGGGCCCCGAAATCCAAGAAGCAGGGTGAAGTCAGTAAGGCAG
CCAGCGCCGACAGCACAACCGAGGGCACACCTGCCGACGGCTTCACAGTCTCTCCACCAAGAGCCTCTTCCTTG
GCCAGAAGCTGAACCTTATTACAGTGAAATCAGTAATTTAGCCGGCTTTGAGGTGGAGGCCATAATCAATCCTA
CCAATGCTGACATTGACCTTAAAGATGACCTAGGAAACACGCTGGAGAAGAAAGGTGGCAAGGAGTTTGTGGAAG
CTGTCTTGGAACTCCGGAAGAAAGAACGGGGCCCTTGAAGTAGCTGGAGCTGCTGTCAGCGCAGGCCATGGCCTGC
CTGCCAAGTTTGTGATCCACTGTAATAGTCCAGTTTGGGGTGCAGACAAGTGTGAAGAACTTCTGGAAAAGACAG
TGAAAAACTGCTTGGCCCTGGCTGATGATAAGAAGCTGAAATCCATTGCATTTCCATCCATCGGCAGCGGCAGGA
ACGGTTTTCCAAAGCAGACAGCAGCTCAGCTGATTCTGAAGGCCATCTCCAGTTACTTCGTGTCTACAATGTCCT
CTTCCATCAAACGGTGTACTTCGTGCTTTTTGACAGCGAGAGTATAGGCATCTATGTGCAGGAAATGGCCAAGC
TGGACGCCAATAGGCTGAGCAATGACAGAACCAGCTGCACCATGTACCCACCTTCAGTTTAAAGAAAAAAA
AATCCCTTCACTCCTACTGGGAGGTGGGACCCCTTTCATTTTCAGTTTGTCTCATCTAGGGAATAAGGCTTT
GGTTTCCAGTTTAATTGTTTTTGACCTTCTAAAATGTTTTATGTTAGCACTGATAGTTGGCATTACTGTTGTTA
AGCACTGTGTTCCAGACCGTGTCTGACTTAGTGTAACCTAGGAGATTTTATAGTTTTATTTAATGAAACCCTGA
TTGACGCACAGCAGTGGGGAGAACAGCGTCTTTTACCTGTCACCGAAGCCAGGAAGCCCCGTTTGTAAAGCGTGTG
TTGTGGTGCTTTATTGTACATCCTCCAGTGGCGTTCTTTTACTCTAATGTTCTTTTGGTTTCCCCCTCAGAAG
AATCATGAATTTGCAACAGACCTAATTTTTGGTTACTTTTTGTCTTATTGATGGATTTGAAAATGAAAGATTTAA
TAAGGCAAAGCAGAATCTGTTGTCCTTAATTATATTTGCAATTTGGAATTTGTGTGAGTTGATTTAGTAAATGT
TAAACCGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1686

MSSRGGKKKSTKTSRSKAGVIFPVGRMLRYIKKGHPKYRIGVGAPVYMAAVLEYLTAEILELAGNAARDNKKGR
VTPRHILLAVANDEELNQLLKGVTIASGGVLPNIHPELLAKKRGSKGKLEAIITPPPAKKAKSPSQKKPVSKKAG
GKKGARKSKKQGEVSKAASADSTTEGTPADGFTVLSTKSLFLGQKLNLIHSEISNLAGFEVEAIINPTNADIDLK
DDLGNLLEKKGGKEFVEAVLELRKKNNGPLEVAGAAVSAGHGLPAKFVHCNSPVWGADKCEELLEKTVKNCLALA
DDKKLKSIAFP SIGSGRNGFPKQTAAQLILKAISSYFVSTMSSSIKTVYFVLFDS SIGIYVQEMAKLDAN

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FIGURE 1687

GCACGAGGGGGGAGCGGAGGTGGCGGGCGGGCGGGGAGCGGTTGGCTTGGTTGTCTTCCAGTCTCCTCCGCTCGC
CCTTTAGCCGGCACCGCTCCCCCTTCCCTCCCCCTTCTCTCTTCTTCCCTTCCCTTCCCTTCCCTTTTTTCCCTTC
CCCGTCGGTGAGCGGCGGGGGTGGCTCCAGCAACGGCTGGGCCCAAGCTGTGTAGAGGCCTTAACCAACGATAAC
GGCGGCGACGGCGAAACCTCGGAGCTCGCAGGGCGGGGGCAAGGCCCGGGCCTTGGAGATGGAGAATTCTCAGATT
GTGTAAGCTGTTTCATCGGCGGCCCTCAATGTGCAGACGAGTGAGTCGGGCCTGCGCGGCCACTTTGAGGCCTTTGG
GACTCTGACGGACTGCGTGGTGGTGGTGAATCCCCAGACCAAGCGCTCCCGTTGCTTTGGCTTCGTGACCTACTC
CAATGTGGAGGAGGCGGACGCCGCCATGGCCGCCCTCGCCCCATGCCGTGGACGGCAACACTGTGGAGCTGAAGCG
GGCGGTGTCCCGGGAGGATTTCGGCGCGGCCCGGTGCCACGCCAAGGTTAAGAAGCTCTTTGTGCGAGGCCTTAA
AGGAGACGTGGCTGAGGGCGACCTGATCGAGCACTTCTCGCAGTTTGGCACCGTGGAAAAGGCCGAGATTATTGC
CGACAAGCAGTCCGGCAAGAAGCGTGGATTTCGGCTTCGTGTATTTCAGAATCACGACGCGGCAGACAAGGCCGC
GGTGGTCAAGTTCCATCCGATTACAGGCCCATCGCGTGGAGGTGAAGAAAGCAGTCCCCAAGGAGGATATCTACTC
CGGTGGGGGTGGAGGCGGCTCCCgatcctcccggggcgggcgaggcgggcgggggcgcgcgcggtggtcgagacca
GAACGGCCTTTTCCAAGGGCGGGCGGCGGGTTACAACAGCTACGGTGGTTACGGCGGCGGCGGAGGCGGCGGCTA
CAATGCCTACGGAGGCGGCGGCGGCGGTTCGTCTACGGTGGGAGCGACTACGGTAACGGCTTCGGCGGCTTCGG
CAGCTACAGCCAGCATCAGTCCTCCTATGGGCCATGAAGAGCGGCGGCGGCGGCGGCGGTGGAGGCAGTAGCTG
GGGCGGTTCGCAGTAATAGTGGACCTTACAGAGGCGGCTATGGCGGTGGGGGTGGCTATGGAGGCAGCTCCTTCTTA
AAGAAAAATTTAAATGCGTGGGAGTGGCTATAGGGGTAGCTCTTTCCAACAGCCCAAGTGGGGTCAACTCCTAA
GCCCCACCCCTCACACACACCGCCTTCCCTGTTTTGCCCTTGGGGGAGCCACTTCTAAGGCTGCTTACCCTTGG
GGGTGTTCTCTATTGTGCTGCCACCTCTCTGTCTCTCCCTCTGAAGATGGACTCGGCCCCACATACACATTTT
TGTGTTACAGTCATTGATGGACTCTATTTTATTATTACTTGGACCTTGGTCGTTTTTATACTAGCAAAATGT
CTTGTTTTAAATTTGTGTTTTTTGGGGGGAGGGAGGGAGTGAACCTTGCTGATTCTGTAGCAAAACCTGGGTGGGGG
TTGGGGTGGGGGGTAGTTTACTTTGTTGTAAGGACTTGATAACCTGGCTACAGCGTTTTCTATGAAATCTACTTG
GATCCCATGCCTGAAATTTGGAAGCATATGTACACAAATCATTTTTACGTTTTATTTTTAATAAATCATTGTGTT
TGACCGTA

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FIGURE 1688

MENSQLCKLFIGGLNVQTSESGLRGHFEAFGTLTDCVVVVPQTKRSRCFGFVTYSNVEEADAAMAASPHAVDGN
TVELKRAVSREDSARPGAHAKVKKLFVGGLKGDVAEGDLIEHFSQFGTVEKAEIIADKQSGKKRGFGFVYFQNHD
AADKAAVVKFHPIQGHRVEVKKAVPKEDIYSGGGGGSRSSRGGRGGRGGRDQNGLSKGGGGGYNSYGGYGG
GGGGGYNAYGGGGGGSSYGGSDYGNGFGGFGSYSQHQSSYGPMKSGGGGGGGSSWGGRSNSGPYRGGYGGGGY
GGSSF

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FIGURE 1689

CCGCAGAACTTGGGGAGCCGCCGCCGCATCCGCCGCCGCAGCCAGCTTCCGCCGCCGCAGGACCGGCCCTGCC
CCAGCCTCCGCAGCCGCGGCGCGTCCACGCCCCGCCGCCAGGGCGAGTCGGGGTCGCCGCTGCACGCTTCT
CAGTGTTCCCGCGCCCCGCATGTAACCGGCCAGGCCCCCGCAACGGTGTCCCTGCAGCTCCAGCCCCGGCT
GCACCCCCCGCCCCGACACCAGCTCTCCAGCCTGCTCGTCCAGGATGCCGCGGCCAAGGCCGAGATGCAGCTG
ATGTCCCGCTGCAGATCTCTGACCCGTTCCGATCCTTTCTCACTCGCCACCATGGACAACCTAACCTAAGCTG
GAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCAGTTCCTCGGCGCCGCCGGGGCCCCAGAGGGCAGCGGCAGC
AACAGCAGCAGCAGCAGCAGCGGGGGCGGTGGAGGCGGCGGGGGCGGCAGCAACAGCAGCAGCAGCAGCAGCACC
TTCAACCCTCAGGCGGACACGGGGCAGCAGCCCTACGAGCACCTGACCGCAGAGTCTTTTCTGACATCTCTCTG
AACAACGAGAAGGTGCTGGTGGAGACCAGTTACCCAGCCAAACCACTCGACTGCCCCCATCACCTATACTGGC
CGCTTTTCCCTGGAGCCTGCACCCAACAGTGGCAACACCTTGTGGCCCGAGCCCCCTTTAGCTTGGTCAGTGGC
CTAGTGAGCATGACCAACCCACCGGCTCCTCGTCTCAGCACCATCTCCAGCGGCTCCTCCGCTCCGCTCC
CAGAGCCACCCCTGAGCTGCGCAGTGCCATCCAACGACAGCAGTCCCATTACTCAGCGGCACCCACCTTCCCC
ACGCCGAACACTGACATTTTCCCTGAGCCACAAAGCCAGGCCCTTCCGGGCTCGGCAGGGACAGCGCTCCAGTAC
CCGCTCCTGCCTACCCTGCCGCCAAGGGTGGCTTCCAGGTTCCCATGATCCCCGACTACCTGTTTCCACAGCAG
CAGGGGGATCTGGGCTGGGCACCCAGACCAGAAGCCCTTCCAGGGCTGGAGAGCCGACCCAGCAGCCTTCG
CTAACCCTCTGTCTACTATTAAGGCCCTTGGCACTCAGTCGGGCTCCAGGACCTGAAGGCCCTCAATACCAGC
TACCAGTCCAGCTCATCAACCCAGCCGCATGCGCAAGTATCCAACCGGCCAGCAAGACGCCCCCCCCACGAA
CGCCCTTACGCTTGGCCAGTGGAGTCTGTGATCGCCGCTTCTCCCGCTCCGACGAGCTCACCCGCCACATCCGC
ATCCACACAGGCCAGAAGCCCTTCCAGTGCCGCATCTGCATGCGCAACTTCAGCCGCAGCGACCACCTCACCACC
CACATCCGCACCCACACAGGCGAAAAAGCCCTTCGCTGCGACATCTGTGGAAGAAAGTTTGGCAGGAGCGATGAA
CGCAAGAGGCATACCAAGATCCACTTGCGGCAGAAGGACAAGAAAGCAGACAAAAGTGTTGTGGCCTCTTCGGCC
ACCTCCTCTCTCTCTTCTTACCCGTTCCCGGTTGCTACCTCTTACCCGTTCCCGGTTACTACCTCTTATCCATCC
CCGGCCACCACCTCATACCCATCCCCCTGTGCCCACCTCCTTCTCCTCTCCCGGCTCCTCGACCTACCCATCCCCT
GTGCACAGTGGCTTCCCTCCCGCTCGGTGGCCACCACGTACTCCTCTGTTCCCCCTGCTTTCCCGGCCAGGTC
AGCAGCTTCCCTTCTCAGCTGTCACTCACTCCTTCCAGCGCTCCACAGGGCTTTCGGACATGACAGCAACCTTT
TCTCCAGGACAATTGAAATTTGCTTAAAGGGAAAGGGGAAAGAAAGGGGAAAGGGAGAAAAAGAAACACAAGAGA
CTTAAAGGACAGGAGGAGGAGATGGCCATAGGAGAGGAGGGTTCTCTTAGGTGAGATGGAGGTTCTCAGAGCCA
AGTCCCTCCTCTCTACTGGAGTGGAAGGTCTATTGGCCAACAATCCTTTCTGCCCCTTCCCCCTCCCCAATTAC
TATTCCCTTTGACTTCAGCTGCCTGAAACAGCCATGTCCAAGTCTTACCTCTATCCAAAGAACTTGATTGCA
TGGATTTTGGATAAATCATTTTCAGTATCATCTCCATCATATGCCTGACCCCTTGCTCCCTTCAATGCTAGAAAAT
CGAGTTGGCAAAATGGGGTTTGGGCCCCCTCAGAGCCCTGCCCTGCACCCCTGTACAGTGTCTGTGCCATGGATT
CGTTTTTCTTGGGGTACTCTTGATGTGAAGATAATTGTCATATTCTATTGTATTATTTGGAGTTAGGTCTCACT
TGGGGGAAAAAAAAAAAAAAAAAGCCAAGCAAACCAATGGTGATCCTCTATTTTGTGATGATGCTGTGACAATAAG
TTTGAACCTTTTTTTTTTGAACAGCAGTCCCAGTATTCTCAGAGCATGTGTCAGAGTGTGTTCCGTTAACCTTT
TTGTAAATACTGCTTGACCGTACTCTCACATGTGGCAAAATATGGTTTGGTTTTCTTTTTTTTTTTTTGAAAGTG
TTTTTTCTTCGTCCTTTTGGTTTAAAAAGTTTACGCTCTTGGTGCCTTTTGTGTGATGCCCCCTTGCTGATGGCTT
GACATGTGCAATTGTGAGGGACATGCTCACCTCTAGCCTTAAGGGGGGCAGGGAGTGATGATTTGGGGGAGGCTT
TGGGAGCAAAATAAGGAAGAGGGCTGAGCTGAGCTTCGGTTCTCCAGAATGTAAGAAAACAAAATCTAAAACAAA
ATCTGAACCTCTCAAAAGTCTATTTTTTTAACTGAAAATGTAAATTTATAAATATATTAGGAGTTGGAATGTTGT
AGTTACCTACTGAGTAGGCGGCGATTTTTGTATGTTATGAACATGCAGTTCATTATTTTGTGGTTCTATTTTACT
TTGTACTTGTGTTTGGCTTAAACAAAGTGACTGTTTGGCTTATAAACACATTGAATGCGCTTTATTGCCCATGGGA
TATGTGGTGTATATCCTTCCAAAAAATTAAACGAAAATAAAGTAGCTGCGATTGGG

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FIGURE 1690

MAAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMMLLSNGAPQFLGAAGAPEGSGSNSSSSSSSGGGGGGGG
GSNSSSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETSYPSTTRLPPITYTGRFSLEPAPNSGNTLW
PEPLFSLVSGLVSMTNPPASSSSAPSPAASSASASQSPPLSCAVPSNDSSPIYSAAPTFTPTNTDIFPEPQSQAF
PGSAGTALQYPPPAYPAKGGFQVPMIPDYLFPQQQDLGLGTPDQKPFQGLESTQQPSLTPLSTIKAFATQSG
SQDLKALNTSYQSOLIKPSRMRKYPNRPSKTPPHERPYACPVESCDRRFSRDELTRHIRIHTGQKPFQCRICMR
NFSRSDHLTTHIRHTGEKPFACDICGRKFARSDEKRRHTKIHLRQKDKKADKSVVASSATSSLSSYPSPVATSY
PSPVTTSPSPATTSPSPVPTSFSSPGSSTYSPVHSGFPSPSVATTYSSVPPAFPAQVSSFPSSAVTNSFSAS
TGLSDMTATFSPRTIEIC

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FIGURE 1691

ATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATCAGGATCAGAGGCATC
AATGGTGTGAGCCCAAAGCCCTACAAGGCGCTTCCTCCCGGCCCCAGGCCCATACAAGGCGCTTCCTTCCCGGCG
CGGCTGGCTGGCGGCCCCGCGGGCTGGGAGCCCGCCGGAGCACAGCACGCCCTGCCGGAGGTCCTTCAGCGGCCC
CAGCCCGGGACCTCCAGCCACACGGGCCTCCGAGCCTCGCCGGCCGCTCTCCCCTGA

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FIGURE 1692

MARKAGNFYVPAEPKLAFVIRIRGINGVSPKPYKALPPGPRPIQGASF PARLAGGPRAGSPPGAQHALPEVFQRP
QPGTSSHTGLRASPAALP

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FIGURE 1693

GGCACGAGGGGAGCGCTTGTGCTGCTCGTACTCCTCCATTTATCCGCCATGATAAGTGCCAGCCGAGCTGCA
GCAGCCCGTCTCGTGGGCGCCGAGCCTCCCGGGGCCCTACGGCCGCCGCCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTTCAAGGCGGGATTATGCATCAGAAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAAGGTGCTGGAGAATGCCGAAGGT
GCCAGAACCACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTTGGAATGCCGGCCAAGCGACAG
GCTGTCAACCAACCAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
CAGAAAAGACATTAAAAATGTTCCCTTTAAATTTGTCCGTGCCTCCAATGGTGATGCCTGGGTTGAGGCTCATGGG
AAATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTGTTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGG
CGCACAGCAAAAAATGCTGTGATCACAGTCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCT
GGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAAATGAGCCCACAGCTGCTGCTCTTGCTATGGTCTAGAC
AAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACCTTTGATATTTCTATCCTGGAAATTCAG
AAAGGAGTATTTGAGGTGAAATCCACAAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCTTGCTA
CGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGACTAAAGACAACATGGCACTTCAGAGGGTA
CGGGAAGCTGCTGAAAAGGCTAAGTGTGAACCTCTCCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATTGTCAGTATCTA
ATCAGAAGGACTATCGCTCCATGCCAAAAGCTATGCAAGATGCAGAAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCAAGGTTTACGAGACTGTACAGGATCTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTGAGGGAGGTGTGTTGGCCGGCGATGTCACG
GATGTGCTGCTCCTTGATGTCACTCCCCTGTCTCTGGGTATTGAACTCTAGGAGGTGTCTTTACCAAACCTTATT
AATAGGAATACCACTATTCCAACCAAGAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGA
ATTAAAGTGTGTCAGGGTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGACAGTTTACTTTGATTGGAATT
CCACCAGCCCCCTCGTGGAGTTCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCGGCGAAAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTTCGAAATGGCATACAAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCCTGAGCAGAAATGGGCGAACTTC
AGTCTTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCCCTTAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTTACAATATTCTATGTCCCTAGCCTGTCAATTTTTTTCAGC
TGATGTAAAAGGAGGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAAAAACAAGGTAGGAATGAGGCTAGACCTTTAACTTCCCTAAGGCATACTTTTCTAGCTACCTT
CTGCCCTGTGTCTGGCACCTACATCCTTGATGATTGTTCTCTTACCCATTCTGGAATTTTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAA

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FIGURE 1694

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRDYASEAIKGAVVGIDLGTTNSCVAVMEGKRA
KVLNAEGARTTPSVVAFTADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVPFKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGRTAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVILVGGMTRMPKVQQTVDLFGRAPSKAVNPDEAVAIGAAIQGGVLAGDVTDVLLLDVTPLSLGIETL
GGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDID
ANGIVHVSADKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKLFE MAYKKMASEREGSGSSGTGEQKEDQK
EEKQ

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FIGURE 1695

GAAATGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCA
GTTGAGAGACTGTTGGAGCCTCTTGTTACACAGGTTACAACCTTGTAACACCAATAGTAAAGGGCCCTCTAAT
AAGAAGAGAGGTCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTTGAG
AAGGGGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGCTGCTGTAGAAGATGTTGCAAAA
CAAGGTGATTTGATGAAGGCTGCTGCAGGAGAGTTCGCAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATG
GTTCCGGGCAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAA
TTACTTGTTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGA
ATCCAGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAA
GATGTTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCA
TCCCAGGCATGCCTACAGCACCCCTGATGTCGCAGCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAG
CAGGCGGTACAGGCATTTCCAATGCAGCCAGGCCACTGCCTCAGACGATGCCTCAGACACCAGGGTGGAGGA
GGAGGAGAACTGGCATATGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAG
CGCTTTAGGCCCTTCCCTGGAGGAGCGTCTGGAAAGCATCATTAGTGGGGCTGCCTTGATGGCCGACTCGTCCCTGC
ACGCGTGATGACCGTCGTGAGCGAATTGTGGCAGAGTGTAATGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTTCG
GAGTACATGGGCAATGCTGGACGTAAAGAAAGAAAGTGATGCACTCAATTCTGCAATAGATAAAAATGACCAAGAAG
ACCAGGGACTTGCGTAGACAGCTCCGCAAGCTGTCTAGGACCACGTTTCAGATTCTTTCTGGAACCAATGTT
CCACTTTTGGTATTGATTGAAGCTGCAAGAATGGAATGAGAAAGAAGTTAAGGAGTATGCCCAAGTTTTCCGT
GAACATGCCAACAATTTGATTGAGGTTGCCAACTTGGCCTGTTCCATCTCAAATAATGAAGAAGGTGTAAAGCTT
GTTGCAATGTCTGCAAGCCAGTTAGAAGCCCTCTGTCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAA
CCACAGAGTAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAACAATGGGAAAAACAAGTCCGTGTTCTCACA
GATGCTGTCTGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGGAAGATGTGAAC
AAATGTGTCTATTGCTCTCCAAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCA
GCCCGGGTCATTACGTAGTCACCTCAGAGATGGACAACCTATGAGCCAGGAGTCTACACAGAGAAGGTTCTGGAA
GCCACTAAGCTGCTCTCCAACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGC
TCGGACCCTGCCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGATGGCATCCGGGAC
ATCAGGAAAGCAGTGCTGATGATAAGGACCCCTGAGGAGTTGGATGACTCTGACTTTGAGACAGAAGATTTTGAT
GTCAGAAGCAGGACGAGCGTCCAGACAGAAGACGATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCT
CAGCTTCCCCAGGAGCAAAAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCAGGAAGAAAAGAGCAAGCTGGAT
GCTGAAGTGTTCAAATGGGACGACAGTGGAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATTATGATG
GAGATGACAGACTTTACCCGAGGTAAAGGACCACTCAAAAATACATCGGATGTCATCAGTGCTGCCAAGAAAATT
GCTGAGGCAGGATCCAGGATGGACAAGCTTGGCCGCACCATTGCAGACCATTGCCCCGACTCGGCTTGCAAGCAG
GACCTGCTGGCCTACCTGCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAG
GTGCAGAATCTCGGCGGGGAGCTTGTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAGAAC
TTGATGAATGCTGTGGTGACAGAGTGAAGGCATCTACGTGCGCTCTACCAAATACCAAAGTACAGGGTATG
GCTTCCCTCAACCTTCTGCTGTGTATGGAAGATGAAGGCACCAGAGAAAAAGCCATTGGTGAAGAGAGAGAAA
CAGGATGAGACACAGACCAAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCGAG
TTCAAAGCTATGGACAGCATCTAAGTCTGCCAGGCCGCGCCGCCCCACCCCTCGGGGCTCCTGAATATCAGTCA
CTGTTCTGCTCACTCAAATGAATTTGCTAAATACAACACTGATACTAGATTCCACAGGGAAATGGGCAGACTGAACC
AGTCCAGGTGGTGAATTTTCCAAGAACATAGTTTAAAGTTGATTAAAAATGCTTTTAGAATGCAGGAGCCTACTTC
TAGCTGTATTTTTTGTATGCTTAAATAAAAAATAAAAATTCATAACCAAAGAGAATCCACATTAGCTTGTAGTA
ATGCTCTGACCAAGCCGAGATGCCATTCTCTTAGTGATGGCGCGTTAGGGTTTGAGAGAAGGGAATTTGGCTC
AACTTCAGTTGAGAGGGTGCAGTCCAGACAGCTTGACTGCTTTTAAATGACCAAAGATGACCTGTGGTAAGCAAC
CTGGGCATCTTAGGAAGCAGTCCCTGGAGAAGGCATGTTCCAGAAAGGTCTCTGGAGGGACAAACTCACTCAGT
AAAACATAATGTATCATGAAGAAAAGTATTCTCTATGACATGAAATGAAAATTTTAAATGCATTGTTATAATTAC
TAATGTACGCTGCTGCAGGACATTAATAAAGTTGCTTTTTTAGGCTACAGTGCTCGATGCCATAATCAGAACAC
ACTTTTTTCTCTTTCTCCAGCTTCAAATGCAAATTCATCATTGGGCTCACTTCTAATAACTGCAGTGTTTCC
CGCCTTGGGCTTGCA

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FIGURE 1696

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATENFLEK
GDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLILADMADVYKL
LVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARKQOELKDVGHRDQMAAARGILQKNVPILYTAS
QACLQHPDVAAYKANRDLIYKQLQOAVTGISNAAQATASDDASQHOGGGGGELAYALNNFDKQIIIVDPLSFSEER
FRPSLEERLESIISGAALMADSSCTRDDRERIVAECNAVRQALQDLLSEYMGNAGRKERSDALNSAIDKMTKKT
RDLRRQLRKAVMDHVSDSFLETNVPLLVLEAAKNGNEKEVKEYAQVFREHANKLIEVANLACISNNEEGVKLV
RMSASQLEALCPQVINAALALAAPQSKLAQENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNK
CVIALQEKDVGDLDRTAGAIRGRAARVIHVVTSEMDNYEFGVYTEKVLKLLSNTVMRPFTEQVEAAVEALSS
DPAQPMDEFIDASRLVYDGIRDIRKAVLMIRTPPEELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQ
LPQEQKAKIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQMCMIMMEMTDFTRGKGPLKNTSDVISAAKKIA
EAGSRMDKLGRTIADHCPDSACKQDLLAYLQRIALYCHQLNICKVKAQVQNLGGELVVSQVDSAMSLIQAAKNL
MNAVVOQTVKASYVASTKYQKSQGMASLNLPAVSWKMKAPKPLVKREKQDETQTKIKRASQKKHVNPVQALSEF
KAMDSI

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FIGURE 1697

GAATTCGGGCGGGGTTTGTACTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCTCTCCAGCTCAGCCGCGTAGGT
TTGGACATATTTACTCTTTTCCCCCAGGTTGAATTGACCAAAGCAATGGTGATGGAGAAGCCTAGTCCCCTGCT
GGTCGGGCGGGAATTTGTGAGACAGTATTACACACTGCTGAACCAGGCCCCAGACATGCTGCATAGATTTTATGG
AAAGAACTCTTCTTATGTCCATGGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTCTACGGACAGAAAGA
AATCCACAGGAAAAGTGATGTCACAAAACCTTACCAACTGCCACACCAAGATTTCGCCATGTTGATGCTCATGCCAC
GCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTCTAACAACAACCAGGCTTTGAGGAGATTTCATGCA
AACGTTTGTCTTCTGCTCCTGAGGGGTCTGTTGCAAATAAATTCTATGTTTACAATGATATCTTCAGATACCAAGA
TGAGGTCTTTGGTGGGTTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACA
GCAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGTAATGACATGGAAGA
ACATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACAAGAACCTGTATCTGAAAT
CCAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAACTGCCCCTGAGGATGCTCAGAAGAGTTCTTCTCCAGCACC
TGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCAGTAAGAATCTTCC
ACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCACAGCCCCGTCCAGA
GTC TAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAGAGTGCGAGAACAACGAATAAATAT
TCCTCCCCAAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAGCAAGGTGACATTGAACCCCGAAGAATGGTGAG
ACACCCTGACAGTCACCAACTCTTCATTGGCAACCTGCCTCATGAAGTGGACAAATCAGAGCTTAAAGATTTCTT
TCAAAGTTATGGAAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGAAATTACCCAATTTTGGTTTTGTGTGT
TGATGATTCTGAGCCTGTTTCAAGATCCTTAGCAACAGGCCCATCATGTTTCAAGGTGAGGTCCGTCTGAATGT
CGAAGAGAAGAAGACTCGAGCTGCCAGGGAAGGCGACCGACGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCG
AGGTGGGCTGGGTGGTGGGAATGAGAGGCCCTCCCCGTGGAGGCATGGTGAGAAACCAGGATTGGAGTGGGAAG
GGGGCTTGCGCCACGGCAGTAATCTTTCATGGATCTTCATGCAGCCATACAAACCCTGGTTCCAACAGAATGGTGA
ATTTTCGACAGCCTTTGGTATCTTGGAGTATGACCCAGTCTGTTATAAACTGCTTAAGTTTGTATAATTTTACT
TTTTTTGTGTGTTAATGGTGTGTGCTCCCTCTCCCTCTCTTCCCTTTCTGACCTTTAGTCTTTCACCTTCCAATT
TTGTGGAATGATATTTTAGGAATAACGGACTTTTACCCGAATTC

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FIGURE 1698

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVMSQNFTNCHT
KIRHVDAHATLNDGVVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFGGFVTEPQEES
EEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEFVAEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPE
DAQSSSPAPADIAQTVQEDLRTFSWASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQIPPQRPQRD
QVRREQRINIPPQGRPRPIREAGEQGDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDFFQSYGNVVELRINSGG
KLPNFGFVVFDDSEPVQKVLNRPIMFRGEVRLNVEEKKTRAAREGDRRDNRRLRGPGGPRGGLGGMRGPFRGGM
VQKPGFGVGRGLAPRQ

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FIGURE 1699

GAGAGGCGCTGCTGACACCGCCGCCACACCGCCGCCACACCGCCGCTGCCTCAGTCATGCCGAAGCACGAGTTCT
CTGTGGACATGACCTGTGGAGGCTGTGCTGAAGCTGTCTCTCGGGTCCTCAATAAGCTTGGAGGAGTTAAGTATG
ACATTGACCTGCCCCAACAAGAAGGTCTGCATTGAATCTGAGCACAGCATGGACACTCTGCTTGCAACCCTGAAGA
AAACAGGAAAGACTGTTTCCTACCTTGGCCTTGAGTAGCAGGGGCCTGGTCCCCACAGCCCACAGGATGGACCAA
AGGGGGCAGGATGCTGATCCTCCCGCTGGCTTCCAGACAGACCTGGGACTTGGCAGTCATGCCGGGTGATGGTGT
TCCTGCGGAGACCCTCAGTTGTCCTATTCTTCCTAGCTTCCCTGCAATAAAATCAAGCTGCTTTTGTGG

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FIGURE 1700

GGAGAGCGCGCTCTGCCTGCCGCCTGCCTGCCTGCCACTGAGGGTTCCCAGCACCATGAGGGCCTGGATCTTCTT
TCTCCTTTGCCTGGCCGGGAGGGCCTTGCGAGCCCCCTCAGCAAGAAGCCCTGCCTGATGAGACAGAGGTGGTGGA
AGAAACTGTGGCAGAGGTGACTGAGGTATCTGTGGGAGCTAATCCTGTCCAGGTGGAAGTAGGAGAATTTGATGA
TGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGGAAAATCCCTGCCAGAACCACCACTGCAACACGGCAAGGT
GTGCGAGCTGGATGAGAACAACACCCCCATGTGCGTGTGCCAGGACCCACCAGCTGCCAGCCCCATTGGCGA
GTTTGAGAAGGTGTGCAGCAATGACAACAAGACCTTCGACTCTTCCTGCCACTTCTTTGCCACAAAGTGCACCCCT
GGAGGGCACCAAGAAGGGCCACAAGCTCCACCTGGACTACATCGGGCCTTGCAAATACATCCCCCCTTGCCTGGA
CTCTGAGCTGACCGAATTCCTCCCTGCGCATGCGGGACTGGCTCAAGAACGTCCTGGTCACCCTGTATGAGAGGGA
TGAGGACAACAACCTTCTGACTGAGAAGCAGAAGCTGCGGGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGA
GGCAGGAGACCACCCCGTGGAGCTGCTGGCCCCGGGACTTCGAGAAGAAGTATAACATGTACATCTTCCCTGTACA
CTGGCAGTTCGGCCAGCTGGACCAGCACCCCATTTGACGGGTACCTCTCCACACCGAGCTGGCTCCACTGCGTGC
TCCCTCATCCCCATGGAGCATTGCACCACCCGCTTTTTCGAGACCTGTGACCTGGACAATGACAAGTACATCGC
CCTGGATGAGTGGGCCGGCTGCTTCGGCATCAAGCAGAAGGATATCGACAAGGATCTTGTGATCTAAATCCACTC
CTTCCACAGTACCGGATTCTCTCTTTAACCCTCCCCCTTCGTGTTTCCCCCAATGTTTAAAATGTTTGGATGGTTT
GTTGTTCTGCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTAACGGTGCTAAAAATGAAAATTCTA
ACCCAAGACATGACATTCTTAGCTGTAACCTAACTATTAAGGCCTTTTCCACACGCATTAATAGTCCCATTTTTC
TCTTGCCATTTGTAGCTTTGCCCATTTGCTTATTGGCACATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAA
CACACATTGCAGCTTCAACTTTTCTCTTTAGTGTTCTGTTTGAACTAATACTTACCGAGTCAGACTTTGTGTTT
ATTTCAATTCAGGGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGGGAAGTAACAGACA
CACGATGTTGTCAAGGATGGTTTTTGGGACTAGAGGCTCAGTGGTGGGAGAGATCCCTGCAGAACCCACCAACCAG
AACGTGGTTTGCCTGAGGCTGTAACCTGAGAGAAAAGATTCTGGGGCTGTGTTATGAAAATATAGACATTCTCACAT
AAGCCCAGTTCATCACCATTTCTCCTTTTACCTTTTCACTGTCAGTTTCTTTTACATTAGGCTGTTGGTTCAAACCT
TTTGGGAGCACGGACTGTCAGTTCTCTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTCTGTCTTTTG
GAGAACCAGGGCTCTTCTCAGGGGCTCTAGGGACTGCCAGGCTGTTTCAGCCAGGAAGGCCAAAATCAAGAGTGA
GATGTAGAAAAGTTGTAAATAGAAAAAGTGGAGTTGGTGAATCGGTTGTTCTTTCTCACATTTGGATGATTGTC
ATAAGGTTTTTTAGCATGTTCTCCTTTTCTTACCCTCCCCTTTTTTCTTCTATTAATCAAGAGAACTTCAAAG
TTAATGGGATGGTCGGATCTCACAGGCTGAGAACTCGTTCACCTCCAAGCATTTTCATGAAAAAGCTGCTTCTTAT
TAATCATACAACTCTCACCATGATGTGAAGAGTTTCACAAATCCTTCAAATAAAAAGTAATGACTTAGAACT
G

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FIGURE 1701

GCCACGTGTCCGGCTCGGAGCCACGGCTGTCCTCCCGGTCCGCCCCGCGCTGCGGTTGCTGCTGGGCTAACGGG
CTCCGATCCAGCGAGCGCTGCGTCCTCGAGTCCCTGCGCCCGTGCCTCCGTCTGCGACCCGAGGCTCCGCTGCG
CGTGGATTCTGCTGCGAACCGGAGACCATGGCCAAACCAGCACAGGGTGCCAAGTACCGGGGCTCCATCCATGAC
TTCCAGGCTTTGACCCCAACCAGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAG
GCCATACTGGACATAATCACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTAC
GGCAAGGACCTCATTGCTGATTTAAAGTATGAATTGACGGGCAAGTTTGAACGGTTGATTGTGGGCTTGATGAGG
CCACCTGCCTATTGTGATGCCAAAGAAATTAAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCTCATT
GAGATCTTGGCTTCCCGGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGGGAC
CTGGAGGCTGACATCATCGGCGACACCTCTGGCCACTTCCAGAAGATGCTTGTGGTCTCTGCTCCAGGGAACCAGG
GAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGCAGGGGAACAGGAA
TGGGGAACAGATGAAGCCCAGTTCATTTACATCTTGGGAAATCGCAGCAAGCAGCATCTTCGGTTGGTGTTCGAT
GAGTATCTGAAGACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGCTGTCTGGGGACTTTGAGAAGCTA
ATGCTGGCCGTAGTGAAGTGTATCCGGAGCACCCCGGAATATTTTGCTGAAAGGCTCTTCAAGGCTATGAAGGGC
CTGGGGACTCGGGACAACACCCTGATCCGCATCATGGTCTCCCGTAGTGAGTTGGACATGCTCGACATTCGGGAG
ATCTTCCGGACCAAGTATGAGAAGTCCCTCTACAGCATGATCAAGAATGACACCTCTGGCGAGTACAAGAAGACT
CTGCTGAAGCTGTCTGGGGGAGATGATGATGCTGCTGGCCAGTTCCTTCCCGGAGGCAGCGCAGGTGGCCTATCAG
ATGTGGGAACCTTAGTGACGTGGCCCGAGTAGAGCTGAAGGGAAGTGTGCGCCAGCCAATGACTTCAACCCTGAC
GCAGATGCCAAAGCGCTGCGGAAAGCCATGAAGGGACTCGGGACTGACGAAGACACAATCATCGATATCATCAGC
CACCGCAGCAATGTCCAGCGGCAGCAGATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAATGACTGAC
CTGAAGTCTGAGATCTCTGGAGACCTGGCAAGGCTGATTCTGGGGCTCATGATGCCACCGGCCATTACGATGCC
AAGCAGTTGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAAATCCTGGCCACTCGGACC
AATGCTGAAATCCGGGCCATCAATGAGGCCTATAAGGAGGACTATCACAAGTCCCTGGAGGATGCTCTGAGCTCA
GACACATCTGGCCACTTCAGGAGGATCCTCATTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAGAAAACCTG
GACCAGGCACGGGAAGATGCCCAGGTGGCTGCTGAGATCTTGGAAATAGCAGACACACCTAGTGGAGACAAAACCT
TCCTTGAGAGACACGTTTCATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGGAGAGTCTTCAGGAGTTC
ATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAGGAGATGTCTGGGGATGTCAGGGATGCATTTGTG
GCCATTGTTCAAAGTGTCAAGAACAAGCCTCTCTTCTTTGCCGACAACTTTACAAATCCATGAAGGGTGCTGGC
ACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAACATCCGGAGGGAATTC
ATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAGACTTCCTGAAGGCCTTGCTG
GCTCTCTGTGGTGGTGGAGACTAGGGCCACAGCTTTGGCGGGCACTTCTGCCAAGAAATGGTTATCAGCACCAGC
CGCCATGGCCAAGCCTGATTGTTCCAGCTCCAGAGACTAAGGAAGGGGCAGGGGTGGGGGGAGGGGTTGGGTTGG
GCTCTTATCTTCAGTGGAGCTTAGGAAACGCTCCCACTCCCAACGGGCCATCGAGGGCCAGCACGGCTGAGCGGC
TGAAAAACCGTAGCCATAGATCCTGTCCACCTCCACTCCCTCTGACCCTCAGGCTTTCCAGCTTCTCCCTT
GCTACAGCCTCTGCCCTGGTTTGGGCTATGTCAGATCCAAAAACATCCTGAACCTCTGTCTGT

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FIGURE 1702

GTCGACCCACGCGTCCGTGCCAGTCTCCGGGGACTTTCCCAGGGGTGGGGCGGCGTGTCCGGGGCCCCGGCACTT
CCTCGTCCTCGGGCCGGGTGCCCTGCCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCCG
GGCCGCTGCCCCGTCCCTGGATTTCGGGGCTGGACGCAGCAAGCGGGGCGCTGTGTCCCCAAGCTCCCCGTCTCG
CAGCGGGCACAGGCAGGGGCTGAGCTACCCCTCATGGAAGGGAGAGGACCGTACCGGATCTACGACCCTGGGGGCA
GCGTGCCCTCAGGAGAGGCATCCGCAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAAATGC
AAGGGATAAAGATGTTAGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAAGGCAGAGG
AGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTCTCCCTCCTTGGGCTCCTTCGACCCCCCTGGCTGAGCTCA
CAGGAAAGGACTCAAATGTCACAGCATCTCCACAGCCCCCTGCATGCCCCAGTGACAAGCCAGCACCAGTCCAGA
AGCCTCCATCCAGTGGCACCTCCTCTGAATTTGAAGTGGTCACTCCTGAGGAGCAGAATTCACCAGAGAGCAGCA
GCCATGCCAATGCGATGGCGCTGGGCCCCCTGCCCCGTGAGGACGGCAACCTGATGCTGCACCTGCAGCGCCTGG
AGACCACGCTGAGTGTGTGTGCCGAGGAGCCGGACCACGGCCAGCTCTTCACCCACCTGGGCCGCATGGCCCTGG
AGTTCAACCGACTGGCATCCAAGGTGCACAAGAATGAGCAGCGCACCTCCATTCTGCAGACCCTGTGTGAGCAGC
TTCGGAAGGAGAACGAGGCTCTGAAGGCCAAGTTGGATAAGGGCCTGGAACAGCGGGATCAGGCTGCCGAGAGGC
TGCGGGAGGAAAAATTTGGAGCTCAAGAAGTTGTTGATGAGCAATGGCAACAAAGAGGGTGGCTCTGGGCGGCCAG
GCTCACCGAAGATGGAAGGGACAGGCAAGAAGGCAGTGGCTGGACAGCAGCAGGCTAGTGTGACGGCAGGTAAGG
TCCCAGAGGTGGTGGCCTTGGGCGCACCCGAGAAGAAGGTGAAGATGCTGGAGCAGCAGCGCAGTGAGCTGCTGG
AAGTGAACAAGCAGTGGGACCAGCATTTCGGGTCCATGAAGCAGCAGTATGAGCAGAAGATCACTGAGCTGCGTC
AGAAGCTGGCTGATTTCGAGAAGCAGGTGACTGACCTGGAGGCCGAGCGGGAGCAGAAGCAGCGTGACTTTGACC
GCAAGCTCCTCCTGGCCAAGTCCAAGATTGAAATGGAGGAGACCGACAAGGAGCAGCTGACAGCAGAGGCCAAGG
AGCTGCGCCAAAAGGTCAAGTACCTGCAGGATCAGCTGAGCCCACTCACCCGACAGCGTGAGTACCAGGAAAAGG
AGATCCAGCGGCTCAACAAGGCCCTGGAGGAAGCACTGAGCATCCAAACCCCGCCATCATCTCCACCAACAGCAT
TTGGGAGCCCAGAAGGAGCAGGGGCCCTCCTAAGGAAACAGGAGCTGGTCACGCAGAATGAGTTGCTGAAACAGC
AGGTGAAGATCTTCGAGGAGGACTTCAGAGGGAGCGCAGTGATCGTGAGCGCATGAATGAGGAGAAGGAAGAGC
TGAAGAAGCAAGTGGAGAAGCTGCAGGCCCAGGTACCCCTGTCAAATGCCAGCTAAAAGCATTCAAAGATGAGG
AGAAGGCAAGAGAAGCCCTCAGACAGCAGAAGAGGAAAGCAAAGGCCTCAGGAGAGCGTTACCATGTGGAGCCCC
ACCCAGAACATCTCTGCGGGGCCCTACCCCTACGCCTACCCGCCCATGCCAGCCATGGTGCCACACCATGGCTTCG
AGGACTGGTCCCAGATCCGCTACCCCCCTCCCCCATGGCCATGGAGCACCCGCCCCCACTCCCCAACTCGCGCC
TCTTCCATCTGCCGGAATACACCTGGCGTCTACCCTGTGGAGGGGTTGAAATCCAAATCAGAGCTCCCAAGTGA
TGGACCCTCCCACAGCCAGGCCTACAGAACCAGAGTCTCCAAAAAATGACCGTGAGGGGCCTCAGTGAGACCAGA
TTGTGTCATTTGGCTCCACCTTCATCTTGACAGGCCAGCTGATCTCAATTGCCAAAACTAGAAGCCACTTGCAC
GGTGTGGCCAGAGCCTCAGCTGGATGAGAGGCTGAGATGGGTGGCCAGCTTGTACACCAGTCCCTGAACTGAGCT
GTTTACAGGACTGGGGAGGCTCCACCCAGAAGGCTTTTCAATTGTACTCTGCTGGGAGTGACTGGGAAAACTCCT
TCCCTGCTGCTGAGTGGAGAGAGGCCTCATCCGGCTTTGACCCCCATCCTTGAGAAGCCTCCAGGAGCAGCAAT
CCTAAGAGTGGGAGGCAGCCAAGACCCCTTCCCTTCAAAAACCTCCCGGAAGTGGTTTCAGGCCCTCTAGTTGCCA
TGACCAATTTGTGTGTGTGTTTAAATTTTTGCTTCAAGCTCTGTAGCAGGACCTGCCCCACGCACACCCCTACCC
TCTGTGAGGAGCTGTGGGAAGTGTGGGTTTGTCTCCAGAACAGAAGAGAATGATGGATATTCTGGCTCTGGGGCC
CTCTCCACCACCACTCACAGTAGCCTTGCTGAAGCCATCACAGATGGGAGAAGGCCATGCCAGCCACGTCCGCCG
AGGGGCGCCAGCCTGAAGCTGCCAGGCCCTGAGGTTTACAGCCCTGGACCCCATAGCTGGAGGCCTGTGGTGCCAG
AAGCCCAGATTAGGGTGGCTGTCCATCCCTGGATAGCTATTTGCACGAATCATGGACATAAATCCAAGTTG

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FIGURE 1703

MEGRGPYRIYDPGGSVPSGEASAAFERLVKENSRLKEKMQGIKMLGELLEESQMEATRLRQKAEELVKDNELLPP
PSPSLGSFDPLAELTGKDSNVTASPTAPACPSDKPAPVQKPPSSGTSSEFEVVTPEEQNSPESSSHANAMALGPL
PREDGNLMLHLQRLETTLSVCAEEPDPHGQLFTHLGRMALEFNRLASKVHKNEQRTSILQTLCEQLRKENEALKAK
LDKGLEQRDQAAERLREENLELKKLLMSNGNKEGASGRPGSPKMEGTGKKAVAGQQQASVTAGKVPEVVALGAPE
KKVKMLEQQRSELLEVKNQWDQHFRSMKQQYEQKITELRQKLADLQKQVTDLEAEREQKQORDFDRKLLAKSKIE
MEETDKEQLTAEAKELRQKVYQLQDQLSPLTRQREYQEKEIQRLNKALEEALSIQTPSSPPTAFGSPEGAGALL
RKQELVTQNELLKQQVKIFEEDFQRERSDRERMNEEKEELKKQVEKLQAQVTLNAQLKAFKDEEKAREALRQQK
RKAKASGERYHVEPHPEHLGAYPYAYPPMPAMVPHHGFEWDSQIRYPMPMAMEHPPPLPNSRLFHLPEYTWRL
PCGGVRNPQNQSSQVMDPPTARPTESPKNDRGPQ

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FIGURE 1704

AGCCAAAAGAGGAAGGGACCGGCCTCCACGTCCACAGGGACCTGACTTCCACCTCTCTGCCCAGATTGCTTAT
GTCACTGTGCCCCGGGACGGGGAGGTGGGGAGCTGAGGGCAAGTCGCGCCCGCCCTGAAATCCCAGCCGCTA
GCGATTGGCTGCAAGGGTCTCGGCTTGCCGCGGATTAATCACACCCGAGGGCTTGAAAGGTGGCTGGGAGCGCC
GGACACCTCAGACGGACGGTGGCCAGGGATCAGGCAGCGGCTCAGGCGACCCTGAGTGTGCCCCACCCCGCCAT
GGCCCGGCTGCTGCAGGCGTCCTGCCTGCTTTCCCTGCTCCTGGCCGGCTTCGTCTCGCAGAGCCGGGGACAAGA
GAAGTCGAAGATGGACTGCCATGGTGGCATAAGTGGCACCATTACGAGTACGGAGCCCTCACCATTGATGGGGA
GGAGTACATCCCTTCAAGCAGTATGCTGGCAAATACGTCCTCTTTGTCAACGTGGCCAGCTACTGAGGCCTGAC
GGCCAGTACATTGAACTGAATGCACTACAGGAAGAGCTTGACCATTCGGTCTGGTCATTCTGGGCTTTCCCTG
CAACCAATTTGGAACAGGAACCAGGAGAGAACTCAGAGATCCTTCCCTACCTCAAGTATGTCCGACCAGGTGG
AGGCTTTGTCCCTAATTTCCAGCTCTTTGAGAAAGGGGATGTCAATGGAGAGAAAGAGCAGAAATTTCTACATTT
CCTAAAGAACTCCTGTCTCCACCTCGGAGCTCCTGGGTACATCTGACCGCCTCTTCTGGGAACCCATGAAGGT
TCACGACATCCGCTGGAACCTTGAGAAAGTTCCCTGGTGGGGCCAGATGGTATACCCATCATGCGCTGGCACCACCG
GACCACGGTCAGCAACGTCAAGATGGACATCCTGTCTACATGAGGCGGCAGGCAGCCCTGGGGGTCAAGAGGAA
GTAACTGAAGGCCGTCTCATCCCATGTCCACCATGTAGGGGAGGGACTTTGTTTCAGGAAGAAATCCGTGTCTCCA
ACCACACTATCTACCCATCACAGACCCCTTTCCCTATCACTCAAGGCCCCAGCCTGGCACAAATGGATGCATACAG
TTCTGTGTACTGCCAGGCATGTGGGTGTGGGTGCAATGTGGGTGTTTACACACATGCCTACAGGTATGCGTGATT
GTGTGTGTGTGCATGGGTGTACAGCCACGTGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTGCCT
GCAGCTGTGTAGTGTGACAGTGAACAACCTTTCTCTCCAGTTCTCCACTCCAATGATAATAGTTCACCTTATAC
CTAAACCCAAAGGAAAAACAGCTCTAGGTCCAATTGTTCTGCTCTAACTGATACCTCAACCTTGGGGCCAGCAT
CTCCCACTGCCTCCAAATATTAGTAACTATGACTGACGTCCCCAGAAGTTTCTGGGTCTACCACACTCCCCAACCC
CCCCACTCCTACTTCTGAAGGGCCCTCCCAAGGCTACATCCCCACCCACAGTTCTCCCTGAGAGAGATCAACC
TCCCTGAGATCAACCAAGGCAGATGTGACAGCAAGGGCCACGGACCCCATGGCAGGGGTGGCGTCTTCATGAGGG
AGGGGCCCAAAGCCCTTGTGGGCGGACCTCCCTGAGCCTGTCTGAGGGGCCAGCCCTTAGTGCATTACAGGCTAA
GGCCCTGGGCAGGGATGCCACCCCTGCTCCTTCGGAGGACGTGCCCTCACCCCTCACTGGTCCACTGGCTTGAG
ACTCACCCCGTCTGCCAGTAAAAGCCTTTCTGCAGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1705

MARLLQASCLLSLLLAGFVSQSRGQEKSKMDCHGGISGTIYEGALTIDGEEYIPFKQYAGKYVLFVNVASYEGL
TGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLKYVRPGGGFVPNFQLFEKGDVNGEKEQKFYT
FLKNSCPPTSELLGTSDRLFWEPMKVHDIRWNFEKFLVGPDGIPIMRWHRRTVSNVKMDILSYMRRQAALGVKR
K

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FIGURE 1706

AGCCTCGGGGCTTGACGGGATTGTGGCGGTCCTCTCTCCCAATTCGGAAGCTACAGCTACCTCCGGACGCTCTCA
AGATGGCGACCTCTCTGGGTTCCAACACCTACAACAGGCAGAACTGGGAGGATGCGGACTTCCCCATTCTGTGCC
AGACATGTCTTGGAGAAAACCCATATATCCGAATGACCAAAGAAAAGTATGGGAAGGAATGCAAAATCTGTGCCA
GGCCATTACAGTGTTTTGCTGGTGCCCTGGAGTCCGCATGCGTTTTCAAGAAGACTGAAGTGTGCCAAACCTGCA
GTAAATTGAAGAATGTCTGTGACACCTGCCTCTTAGACCTAGAGTATGGCCTGCCCATCCAGGTTTCGTGACGCAG
GATTGTCTTTTAAAGATGACATGCCAAAGTCAGATGTCAACAAAGAGTACTATACACAGAATATGGAGAGAGAGA
TTTCTAACTCTGATGGAACACGGCCAGTTGGCATGCTGGGGAAAGCCACATCTACCAGTGACATGCTGCTCAAAC
TGGCCCGGACCACACCCTACTACAAAAGGAATCGACCCACATTTGCTCCTTCTGGGTGAAAGGAGAGTGTAAGA
GAGGAGAGGAATGTCCATACAGACATGAGAAGCCTACAGATCCAGATGACCCCTTGCTGATCAGAATATTAAAG
ACCGTTATTACGGAATCAATGATCCTGTAGCTGACAAGCTTCTAAAGCGGGCTTCAACAATGCCTCGGCTGGACC
CACCAGAGGATAAACTATCACCACACTATATGTTGGTGGTCTAGGTGATACCATTACTGAGACAGATTTAAGAA
ATCATTCTTACCAGTTTCGGAGAGATCCGGACGATCACTGTTGTGTCAGAGACAGCAGTGTGCTTTCATCCAGTTTG
CCACACGGCAGGCTGCAGAAGTGGCTGCTGAGAAGTCCTTTAATAAGTTGATTGTAAATGGCCGCAGACTGAATG
TGAAATGGGGAAGATCCCAGGCAGCCAGAGGAAAAGAAAAGAGAAAGATGGAATACAGACTCTGGGATCAAAC
TAGAACCTGTTCCAGGATTGCCAGGAGCTCTTCCTCCTCCTCCTGCAGCAGAAGAAGAAGCCTCTGCCAACTACT
TCAACTTGCCCCCAAGTGGTCCCTCCAGCTGTGGTGAACATTGCTCTGCCACCGCCCCCTGGCATTGCTCCACCCC
CACCCCCAGTTTTTGGGCCACACATGTTCCACCCAATGGGACCACCCCCTCCTTTCATGCGGGCTCCAGGACCAA
TCCACTATCCTTCTCAGGACCCTCAGAGGATGGGAGCTCATGCTGGAAAACACAGCAGCCCCCTAGCACCTTGTC
CCACTCTGGGGCTCTGTGGAAGAAAGGGCACTTAAACTCCCAGTAAATCTTGGAATAAATATATTTTTCTTCC
CTTGTAAGTTTCCATGGTAGCTGAATGTGCTCAGATGTGAGCAGTCAGAGACTGACAGCCATGCTTTCCTATACTT
GTTCAAAGGATCGATGGACCGTAAATAAGCTGCCATTAACACATCTGGTTACTGCTGTAACATGACTAATAAAAC
CGAACGCCTGTTCCCTTACCCGTGTGGGGGACACGCAGATGAGTGAATTGGAATGTCCAGCAGAGTTACCTCC
CAATTATATGTTTCATTTTGTATATTTTTTGGTCGGGGGAAAATTGACCTGCAGTAAAAAACCTTTGACCATT
TTATGTCCATTGGATACTTTCTTTTTATCATCTTAAAAAAGATAACTAGTACTAATCATTGTAGTGGCCTAAG
TGTGATTTAACTCTTGAAGTCACACCCTCCGAAAGATGAGTAGAAACCAGCACCAGCACAGCCCAGATCTTCTCT
TTCCTCTCCTTTTCTCATTTTATTCCTAAAGGAATCTGACCATTTTACGTCTCTACGGCCCCAAAAAAGACAAAA
ATAAAAATTCCTTTTTTATTCCTGTCAACTGGATGGAAACACAAATTTTCATGGAGCTGTGTACCATCGAAGAAACC
TGGTGTCTGGCATGAAATTACTGTAAAGAACTTCCTGTAAACACGTTCTTTAACAAACTGAAATGAAAAGCATT
GGAGCGTCTGAATGAAAGACGTGACCTCCTGCTGGGACTCTGATGGTCTTCAGCATTACCTTCGTGTGTCTTCA
GTGTCTCATTGTATCCCTGCTTCTGTTTGGTCTTAGAGTGTTTGGATATAACTGAATTGTAGATGGTAAAGGAA
ATTTGATGTGTTTTTTGTTTTTAAATAATTAAAACGGGTCAATTTTT

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FIGURE 1707

MATSLGSNTYNRQNWEDADFPILCQTC LGENPYIRMTKEKYGKECKICARPFTVFRWC PGVVRMRFKKTEVCQTCS
KLKNVCQTCLLDLEYGLPIQVRDAGLSFKDDMPKSDVNKEYYTQNMEREISNSD GTRPVGMLGKATSTSDMLLKL
ARTTPYYKRNRPHICSFVVKGECKRGE ECPYRHEKPTDPDDPLADQNIKDRYYGINDPVADKLLKRASTMPRLDP
PEDKTITTL YVGGLGDTITETDLRNHFYQFGEIRTITVVQRQOC AFIQFATRQAAEVAAEKSFNKLIVNGRRLNV
KWGRSQAARGKEKEKDGT TDSGIKLEPVPGLP GALPPPPAAEEEEASANYFNLPPSGPPAVVNIALPPPPGIAPPP
PPGF GPHMFHPMGPPPPFMRAPGPIHYP SQDPQRMGAHAGKHSSP

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FIGURE 1708

CTCCGCCCTCTCCCACTCTCTCTTTCCGGTGTGGAGTCTGGAGACGACGTGCAGAAATGGCACCTCGAAAGGGGA
AGGAAAAGAAGGAAGAACAGGTCATCAGCCTCGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGTGTCTGCC
ATATCTTTGCATCCTTCAATGACACTTTTGTCCATGTCACTGATCTTTCTGGCAAGGAAACCATCTGCCGTGTGA
CTGGTGGGATGAAGGTAAAGGCAGACCGAGATGAATCCTCACCATATGCTGCTATGTTGGCTGCCCAGGATGTGG
CCCAGAGGTGCAAGGAGCTGGGTATCACCGCCCTACACATCAAACCTCCGGGCCACAGGAGGAAATAGGACCAAGA
CCCCTGGACCTGGGGCCAGTCGGCCCTCAGAGCCCTTGCCCGCTCGGGTATGAAGATCGGGCGGATTGAGGATG
TCACCCCATCCCCTCTGACAGCACTCGCAGGAAGGGGGTCCCGTGCTCGCCGTCTGTGAACAAGATTCTCA
AAATATTTTCTGTTAATAAATTGCCTTCATGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1709

MAPRKGKEKKEEQVISLGPQVAEGENVFGVCHIFASFNDTFVHVTDLSGKETICRVTTGGMKVKADRDESSPYAAM
LAAQDVAQRCKELGITALHIKLRATGGNRTKTPGPGAQSALRALARSGMKIGRIEDVTPIPSDSTRRKGGRRGRRL

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FIGURE 1710

ACCAAGTGGGCGGAGTGGCCTTCTGTGGACGAATCAGATTCTCTCCAGCACCGACTTTAAGAGGCGAGCCGGGG
GGTCAGGGTCCCAGATGCACAGGAGGAGAAGCAGGAGCTGTCGGGAAGATCAGAAGCCAGTCATGGATGACCAGC
GCGACCTTATCTCCAACAATGAGCAACTGCCCATGCTGGGCGGGCGCCCTGGGGCCCCGGAGAGCAAGTGCAGCC
GCGGAGCCCTGTACACAGGCTTTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCTACTTCC
TGTACCAGCAGCAGGGCCGGCTGGACAACTGACAGTCACCTCCCAGAACCTGCAGCTGGAGAACCTGCGCATGA
AGCTTCCCAAGCCTCCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGCTGATGCAGGCGCTGCCCATGG
GAGCCCTGCCCCAGGGGCCCATGCAGAATGCCACCAAGTATGGCAACATGACAGAGGACCATGTGATGCACCTGC
TCCAGAATGCTGACCCCTGAAGGTGTACCCGCCACTGAAGGGGAGCTTCCCGGAGAACCTGAGACACCTTAAGA
ACACCATGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCATTGGCTCCTGTTTGAAATGAGCAGGC
ACTCCTTGGAGCAAAAGCCCACTGACGCTCCACCGAAAGTACTGACCAAGTGCCAGGAAGAGGTCAGCCACATCC
CTGCTGTCCACCCGGGTTTATTGAGGCCCAAGTGCAGACGAGAACGGCAACTATCTGCCACTCCAGTGCTATGGGA
GCATCGGCTACTGCTGGTGTGCTTCCCCAACGGCACGGAGGTCCCCAACACCAGAAGCCGCGGGCACCATAACT
GCAGTGAGTCACTGGAACCTGGAGGACCCGTCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCCAGTCCCCA
TGTGAGAGCAGCAGAGGCGGTCTTCAACATCCTGCCAGCCCCACACAGCTACAGCTTTCTTGCTCCCTTCAGCCC
CCAGCCCCCTCCCCCATCTCCCACCCGTGTACCTCATCCCATGAGACCCTGGTGCCTGGCTCTTTTCGTCACCCCTGG
ACAAGACAAACCAAGTCGGAACAGCAGATAACAATGCAGCAAGGCCCTGCTGCCCAATCTCCATCTGTCAACAGG
GGCGTGAGGTCCCAGGAAGTGGCCAAAAGCTAGACAGATCCCCGTTCTTGACATCACAGCAGCCTCCAACACAAG
GCTCCAAGACCTAGGCTCATGGACGAGATGGGAAGGCACAGGGAGAAGGGATAACCCTACACCCAGACCCAGGC
TGGACATGCTGACTGTCTCTCCCTCCAGCCTTTGGCCTTGGCTTTTCTAGCCTATTTACCTGCAGGCTGAGCC
ACTCTCTTCCCTTTCCCCAGCATCACTCCCCAAGGAAGAGCCAATGTTTTCCACCCATAATCCTTTCTGCCGACC
CCTAGTTCCCTCTGCTCAGCCAAGCTTGTATCAGCTTTCAGGGCCATGGTTCACATTAGAATAAAAGGTAGTAA
TTAG

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FIGURE 1711

ATAAGATCTGTCCCCCAACTCTCCAGATCTGTGACCCACATTCTCTCTCCATAGGTGGAAAAGAGGCTGCTTC
AGGCACCACACCTCAGAAGTCCCGGAAGCCCAAGAAAGGGGCTGGGAACCCCAAGCCTCAACCCTGGCGCTGCA
AAGCAACATCACCCAGAGCAAGAAGAAGAAGCTGGGGGCCGGGAAGGTGGGGAGGCCTCTGTTTCCCCAGA
AAAGACCTCCACGACTTCCAAGGGGAAAGCAAAGAGAGACAAAGCAAGTGGTGATGTCAAGGAGAAGAAAGGGAA
GGGTCTCTTGGCTCCCAAGGGGCCAAGGACGAGCCAGAAGAGGAGCTTCAGAAGGGGATGGGGACGGTTGAAGG
TGGAGATCAAAGCAACCCAAAGAGCAAGAAGGAGAAGAAGAAATCCGACAAGA

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FIGURE 1712A

GAAGGGCAGACAGAGTGTCCAAAAGCGTGAGAGCACGAAGTGAGGAGAAGGTGGAGAAGAGAGAAGAGGAAGAGG
AAGAGGAAGAGAGGAAGCGGAGGGAAGTGCAGGAGGCTAAAAGGGGAAGAAGAGGATCAGCCCAAGGAGGAGGA
AGAGGAAAACAAGACAAACAGCCAGTGCAGAGGAGAGGAACGTGTGTCCAGTGTCCCGATCCCTGCGGAGCTAGT
AGCTGAGAGCTCTGTGCCCTGGGCACCTTGACGCCCTGCACCTGCCTGCCACTTCCCCACCGAGGCCATGGGCCC
AGGAGTTCTGCTGCTCCTGCTGGTGGCCACAGCTTGGCATGGTTCAGGGAATCCCAGTGATAGAGCCCAAGTGTCCC
TGAGCTGGTTCGTGAAGCCAGGAGCAACGGTGACCTTGCGATGTGTGGGCAATGGCAGCGTGGAATGGGATGGCCC
CCCATCACCTCACTGGACCCTGTACTCTGATGGCTCCAGCAGCATCCTCAGCACCAACAACGCTACCTTCCAAA
CACGGGGACCTATCGCTGCACTGAGCCTGGAGACCCCTGGGAGGCAGCGCCGCATCCACCTCTATGTCAAAGA
CCCTGCCCCGGCCCTGGAACGTGCTAGCACAGGAGGTGGTTCGTGTTTCAGAGGACCAGGACGCACTACTGCCCTGTCT
GCTCACAGACCCGGTGTCTGGAAGCAGGCGTCTCGCTGGTGCCTGTGCTGGCCGGCCCCCTCATGCGCCACACCAA
CTACTCCTTCTCGCCCTGGCATGGCTTCACCATCCACAGGGCCAAGTTCATTTCAGAGCCAGGACTATCAATGCAG
TGCCCTGATGGGTGGCAGGAAGGTGATGTCCATCAGCATCCGGCTGAAAGTGCAGAAAGTCATCCAGGGCCCCC
AGCCTTGACACTGGTGCCTGCAGAGCTGGTGGGATTTCAGGGGAGGCTGCCCAGATCGTGTGCTCAGCCAGCAG
CGTTGATGTTAACTTTGATGTCTTCCCTCCAACACAACAACACCAAGCTCGCAATCCCTCAACAATCTGACTTTCA
TAATAACCGTTACCAAAAAGTCTTGACCCTCAACCTCGATCAAGTAGATTTCCAACATGCCGGCAACTACTCCTG
CGTGGCCAGCAACGTGCAGGGCAAGCACTCCACCTCCATGTTCTTCCGGGTGGTAGAGAGTGCTACTTGAAGT
GAGCTCTGAGCAGAACCTCATCCAGGAGGTGACCGTGGGGGAGGGGCTCAACCTCAAAGTCATGGTGGAGGCCTA
CCCAGGCCTGCAAGGTTTTAACTGGACCTACCTGGGACCCTTTTCTGACCACCAGCCTGAGCCCAAGCTTGCTAA
TGCTACCACCAAGGACACATACAGGCACACCTTACCCTCTCTCTGCCCCGCTGAAGCCCTCTGAGGCTGGCCG
CTACTCCTTCTGCCCCAGAAACCCAGGAGGCTGGAGAGCTCTGACGTTTGAGCTCACCCCTCGATACCCCCAGA
GGTAAGCGTCATATGGACATTCATCAACGGCTCTGGCACCTTTTGTGTGCTGCCTCTGGGTACCCCCAGCCCCA
CGTGACATGGCTGCAGTGCAGTGGCCACACTGATAGGTGTGATGAGGCCCAAGTGTGAGGTCTGGGATGACCC
ATACCCTGAGGTCTGAGCCAGGAGCCCTTCCACAAGGTGACGGTGCAGAGCCTGCTGACTGTTGAGACCTTAGA
GCACAACCAACCTACGAGTGCAGGGCCACAACAGCGTGGGGAGTGGCTCCTGGGCCTTCATACCCATCTCTGC
AGGAGCCACACGCATCCCCCGATGAGTTCCTCTTACACCAGTGGTGGTGCCTGCATGTCCATCATGGCCTT
GCTGCTGCTGCTGCTCCTGCTGCTATTGTACAAGTATAAGCAGAAGCCCAAGTACCAGGTCCGCTGGAAGATCAT
CGAGAGCTATGAGGGCAACAGTTATACTTTTCATCGACCCACGCAGCTGCCTTACAACGAGAAGTGGGAGTTCCC
CCGGAACAACCTGCAGTTTGGTAAGACCCTCGGAGCTGGAGCCTTTGGGAAGGTGGTGGAGGCCACGGCCTTTGG
TCTGGGCAAGGAGGATGCTGTCTGAAGTGGCTGTGAAGATGCTGAAGTCCACGGCCCATGCTGATGAGAAGGA
GGCCCTCATGTCCGAGCTGAAGATCATGAGCCACCTGGGCCAGCAGAGAACATCGTCAACCTTCTGGGAGCCTG
TACCCATGGAGGCCCTGTACTGGTCATCACGGAGTACTGTTGCTATGGCGACCTGCTCAACTTTCTGCGAAGGAA
GGCTGAGGCCATGCTGGGACCCAGCCTGAGCCCCGGCCAGGACCCCGAGGGAGGCGTCGACTATAAGAACATCCA
CCTCGAGAAGAAATATGTCCGAGGGACAGTGGCTTCTCCAGCCAGGGTGTGGACACCTATGTGGAGATGAGGCC
TGTCTCCACTTCTTCAAATGACTCCTTCTCTGAGCAAGACCTGGACAAGGAGGATGGACGGCCCCCTGGAGCTCCG
GGACCTGCTTCACTTCTCCAGCCAAGTAGCCAGGGCATGGCCTTCTCGCTTCCAAGAATTGCATCCACCGGGA
CGTGGCAGCGCGTAACGTGCTGTTGACCAATGGTCATGTGGCCAAGATTGGGGACTTCGGGCTGGCTAGGGACAT
CATGAATGACTCCAATACTACATTGTCAAGGGCAATGCCCGCCTGCCTGTGAAGTGGATGGCCCCAGAGAGCATCTT
TGACTGTGTCTACACGGTTCAGAGCGACGTCTGGTCTATGGCATCCTCCTCTGGGAGATCTTCTCACTTGGGCT
GAATCCCTACCCTGGCATCCTGGTGAACAGCAAGTCTATAAACTGGTGAAGGATGGATACCAAATGGCCAGCC
TGCAATTTGCCCCAAAGAATATATACAGCATCATGCAGGCCTGCTGGGCCTTGAGGCCACCCACAGACCCACCTT
CCAGCAGATCTGCTCCTTCCCTCAGGAGCAGGCCCAAGAGGACAGGAGAGAGCGGGACTATACCAATCTGCCGAG
CAGCAGCAGAAGCGGTGGCAGCGGCAGCAGCAGCAGTGAAGTGGAGGAGAGAGCTCTAGTGAGCACCTGACCTG
CTGCGAGCAAGGGGATATCGCCAGCCCTTGCTGCAGCCCAACAACATATCAGTTCTGCTGAGGAGTTGACGACAG
GGAGTACCCTCTCCCTCCCAAACTTCAACTCCTCCATGGATGGGGCGACACGGGGAGAACATACAACTCT
GCCTTCGGTCAATTTCACTCAACAGCTCGGCCAGCTCTGAACTTGGGAAGGTGAGGGATTAGGGGAGGTCAGA
GGATCCCACTTCTGAGCATGGGCCATCACTGCCAGTCAGGGGCTGGGGGCTGAGCCCTACCCCCCTCCCTT
ACTGTTCTCATGGTGTGGCCCTGTGTTGCTATGCCAACTAGTAGAACCTTCTTCTTAATCCCTTATCTTCA
TGGAATGGACTGACTTTATGCCTATGAAGTCCCCAGGAGCTACACTGATACTGAGAAAACAGGCTCTTTGGGG

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FIGURE 1712B

CTAGACAGACTGGCAGAGAGTGAGATCTCCCTCTCTGAGAGGAGCAGCAGATGCTCACAGACCACACTCAGCTCA
GGCCCCTTGGAGCAGGATGGCTCCTCTAAGAATCTCACAGGACCTCTTAGTCTCTGCCCTATACGCCGCCTTCAC
TCCACAGCCTCACCCCTCCCACCCCCATACTGGTACTGCTGTAATGAGCCAAGTGGCAGCTAAAAGTTGGGGGTG
TTCTGCCCAGTCCCGTCATTCTGGGCTAGAAGGCAGGGGACCTTGGCATGTGGCTGGCCACACCAAGCAGGAAGC
ACAAACTCCCCCAAGCTGACTCATCCTAACTAACAGTCACGCCGTGGGATGTCTCTGTCCACATTAACTAACAG
CATTAAATGC

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FIGURE 1713

TTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCCCTGCTGTGCCAGAAACCCTTAAGA
AAAAGCGAAGGAATTTTCGAGAGCTGAAGATGAAGCGCCTGAGAAAAGAAGTTTGCCCAAAGATGCTTCGAAAGG
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAAGGAATATAGGCAGATGTACAGGACTGAAATTC
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATCAGAA
TCAGAGGTATCAATGGAGTGAGCCCAAAGGTTTCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATG
GAACCTTTGTGAAGCTCAACAAGGCTTCGATTACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC
CCAATCTGAAGTCAGTAAATGAAC TAATCTACAAGCGTGGTTATGGCAAATCAATAAGAAGCGAATTGCTTTGA
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCGTGGAGGATTTGATTCATGAGATCT
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGAA
TGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA
GAAGAATGAAC TAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT
TGG

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FIGURE 1714

ATGGCCGAGGCCAGGAAGCGGCGGGAGCTACTTCCCTGATCTACCACCATCTGCTGCGGGCTGGCTATGTGCGT
GCGGCGCGGGAAGTGAAGGAGCAGAGCGGCCAGTGGGTTGGGCCAGAAAGTGTGCTCGCAGGGGCCGAACTTTGT
AATTCCCGCTTCCCTTACCTCCACGCCCTTCCCTGGTAGCGGGTATTTTAAGTTTCCTAAGTCTCCCGCCACGTGG
CTAGGCTCTGCGCGGCCCCCTGGGGCAAGGAGGTTGCTGCGAGTCTCGGGGGTGGATTGCGACCAGCCCCCTCG
GGGAGCGCCTGGAAAAGGGACCCTACAGCCTCTTAGTTGAGCTGGAACCTCAGGCCTTTAGCGATTGTCTGTACT
GAGACGGTCAGCTTTGGTACTCGAACTCGTGGTACAGTCATTTCTTACTTGATTAATTCAACTGTTAATCCGGTA
CTCAGGGTGCTTCCCTGGTGTTCGAATGAAGTGTTCCTGGCTCAGCCCGTAACCCCTTCTGGACATCTATACACAC
TGGCAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCACTGCAAGCTAAGAAAACCCGT
GTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAGCAGAAGCCGAAACCGCCAAAGCCAGT
AAGAGCCTTGCAGCTTTGGGAACAGGCTATGGAATATTGATTGTTCTAGGTTTCTATGACCCCTTCTCTCCTACT
TTCTATGAAATGGGGGAAGCCAAAGGTCCCAGTCTCCTAACTCCTGGTGTACGGATTGAATTGTGTTTCCCCA
AAAGGTGTTGTGCTGAGCCTCTGGCTGACAGCTGTGTTTTCTCTGCTCAGCAAAGGCTTTAACCATAAACAGGAG
AAATCGGCCCAGACAGTTGCTGGTACTTTCTGCCCAGTACTACTTCACAGAGTCAGTGTCCAGCTTCCGAACAGC
ATGGAGGCAGCTCTGAGTCATCCGAATCCAGTGGCCCCACAGCCTGCTCAGCTTCGGCTACCTGTCTGGGAC
TGGGCCAAGCCGAGCTTCGTGGCCGACGGGCCCCGGGGAGGCTGGCGAGCAGCCCTCGGCCGCTCCGCCCCAGCCT
CCCCACATCATCTTCATCCTCACGGACGACCAAGGCTACCACGACGTGGGCTACCATGGTTTACAGATATCGAGACC
CCTACGCTGGACAGGCTGGCGGCCAAGGGGGTCAAGTTGGAGAATTATTACATCCAGCCCATCTGCACGCCTTCG
CGGAGCCAGCTCCTCACTGGCAGGTACCAGATCCACACAGGACTCCAGCATTCCATCATCCGCCCCACAGCAGCCC
AACTGCCTGCCCCCTGGACCAGGTGACACTGCCACAGAAGCTGCAGGAGGCAGGTTATTCCACCCATATGGTGGGC
AAGTGGCACCTGGGCTTCTACCGGAAGGAGTGTCTGCCCACCCGTGCGGGCTTCGACACCTTCTGGGCTCGCTC
ACGGGCAATGTGGACTATTACACCTATGACAACTGTGATGGCCCAGGCGTGTGCGGCTTCGACCTGCACGAGGGT
GAGAATGTGGCCTGGGGGCTCAGCGGCCAGTACTCCACTATGCTTTATGCCAGCGCGCCAGCCATATCCTGGCC
AGCCACAGCCCTCAGCGTCCCCTCTTCCCTCTATGTGGCTTCCAGGCAGTACACACACCCCTGCAGTCCCCTCGT
GAGTACCTGTACCGCTACCGCACCATGGGCAATGTGGCCCGCGGAAGTACGCGGCCATGGTGACCTGCATGGAT
GAGGCTGTGCGCAACATCACCTGGGCCCTCAAGCGCTACGGTTTCTACAACAACAGTGTATCATCTTCTCCAGT
GACAATGGTGGCCAGACTTTCTCGGGGGGCGCAACTGGCCGCTCCGAGGACGCAAGGGCACTTATTGGGAAGGT
GGCGTGGGGGCTAGGCTTTGTCCACAGTCCCCTGCTCAAGCGAAAGCAACGGACAAGCCGGGCACTGATGCAC
ATCACTGACTGGTACCCGACCCTGGTGGGTCTGGCAGGTGGTACCACCTCAGCAGCCGATGGGCTAGATGGCTAC
GACGTGTGGCCGGCCATCAGCGAGGGCCGGGCTCACCACGCACGGAGATCCTGCACAACTTACCCACTCTAC
AACCATGCCCAGCATGGCTCCCTGGAGGGCGGCTTTGGCATCTGGAACACCGCCGTGCAGGCTGCCATCCGCGTG
GGTGAGTGAAGCTGCTGACAGGAGACCCGGCTATGGCGATTGGATCCCACCGCAGACACTGGCCACCTTCCCG
GGTAGCTGGTGAACCTGGAACGAATGGCCAGTGTCCGCCAGGCCGTGTGGCTCTTCAACATCAGTGTGACCCCT
TATGAACGGGAGGACCTGGCTGGCCAGCGGCTGATGTGGTCCGCACCCTGCTGGCTCGCCTGGCCGAATATAAC
CGCACAGCCATCCCGGTACGCTACCCAGCTGAGAACCCCGGGCTCATCCTGACTTTAATGGGGGTGCTTGGGGG
CCCTGGGCCAGTGATGAGGAAGAGGAGGAAGAGGAAGGGAGGGCTCGAAGCTTCTCCGGGGTGTGTCGAAGAAA
AAATGCAAGATTTGCAAGCTTCGATCCTTTTTCCGTAAACTCAACACCAGGCTAATGTCCCAACGGATCTGA

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FIGURE 1715

LDRLAAGVKLENYYIQICTPSRSQLLTGRYQIHTGLQHSIIRPQQPNCLPLDQVTLPOKLQEAGYSTHMGKW
HLGFYRKECLPTRRGFDFTLGSLTGNVDYYTYDNC DGPGVCGFDLHEGENVAWGLSGQYSTMLYAQRASHILASH
SPQRPLFLYVAFQAVHTPLQSPREYLY

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FIGURE 1716

ATGGGGATAATCAGGCACAGGTCTTTCCGCCAATGCGTTATGATGATTAAAGAAGTTGTCATATTTGTGAACTCG
CGGCAAATCTGGCCTCTCTGTGATTTCATCACTGTGCACACTCCTCTCCTGCCCTCCACGACAGGCTTGCTGAAT
GACAACACCTTTGCCAGTGCAAGAAGGGGGTGCCTGTGGTGAAGTGTGCCCGTGGAGGGATCGTGGACGAAGGC
GCCCTGCTCCGGGGCCCTGCAGTCTGGCCAGTGTGCCGGGGCTGCACTGGACGTGTTTACGGAAGTAAGTGCCTGG
CAGCCTCAGCGTCAGGAGGACGGGAGAGATAGGGAGCAGAGAGGCCCATGGCAGGGAAAGCCTGGCGTTTTACAG
AAAGCCTATAGCTTATTGTCTCTTTCATCCATGGTAAAAGGAGAAAAGTGTGTTGCCAAAAACACACCTTTGTGG
TTTGAGGAGTCCTTGCGGAGCCTGTACCTGCTTCTTGCCCCGAGGTGTGGCTGTGCAGAGGGGCTCCCCTAACTGC
ATCCTGAGGGTGCTCCCACTATGCACCCTGTGCCAAGCCTGGACACCTGAGGGATCTGTGCCCAATGCTACTGGA
GCCAAGGCTGGGGCTACCTTTAGTGATAGTGTTATTATTGTAATTATTGTAACCATTGTACAGAATGTCCAGAC
TGGTATGCAGGTATAGCTCATTACCAGGAGGAAAACACAGAAGGTCTTTGTGCAGTTGCTGTGGTTTTGAGTTTC
TCTGGGATAGCTTGTATTTTGCCAGCAAATGAAAGCTTTGGACCTCTGCAGATGTCACTTGGAGGAGCAGTCAAA
GACATCTTCAGGTTTCATGGTCATATTCAATTATGGTGTGTTGTGGCCTTTATGATTGGAACGTACAACCTTCTACTCC
TACTACATTGGTGCAAAACAAAATGAAGCCTTCACAACAGTTGAAGAGAGTTTTTAAGACACTGTTCTGGGCTATA
TTTGGACTTGCTGAAGTGAAATCAGTGGTCATCAACTATAACCACAAATTCATTGAAAATATTGGTTATGTTTCGT
TATGGAGTCTATAATGTTACAGTGGTCATTGTTTTGCTAAATGTGTTAATTGCCATGATCAACAATTCATTCCAG
GAAATTGAGGATGATGCTGATGTGGAGTAG

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FIGURE 1717

MGIIRHRSFRQCVMMIKEATFSDSVIIVIIVTIVTECPDWYAGIAHYQEENTEGLCAVAVVLSFSGIACILPANE
SFGPLQMSLGGAVKDIFRFMVIFIMVFVAFMIGTYNFYSYYIGAKQNEAFTTVEESFKTLFWAIFGLAEVKSIVI
NYNHKEIENIGYVRYGVYNVTVVIVLLNVLIAMINNSFQEIEDDADVE

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FIGURE 1718

ATGGCGACTGCGACCCCGTGCCGCCGCGGATGGGCAGCCGCGCTGGCGGGCCCCACCACGCCGCTGAGCCCCACG
CGCCTGTCGCGGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGGCTGGCGGTGTACATCGACAAGGTG
CGCAGCCTGGAGACGGAGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGCGAGGAGGTGCGCGGCCGTGAGCTC
ACCGGCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCGACGCGCGCTCGACGACACGGCCCCGCGAGCGC
GCCAAGCTGCAGATCGAGCTGGGCAAGTGCAAGGCGGAACACGACCAGCTGCTCCTCAACTATGCTAAGAAGGAA
TCTGATCTTAATGGCGCCCAGATCAAGCTTCGAGAATATGAAGCAGCACTGAATTCGAAAGATGCAGCTCTTGCT
ACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTGGAGGATCTGAAGGATCAGATTGCCCAGTTGGAAGCC
TCCTTAGCTGCAGCCAAAAACAGTTAGCAGATGAACTTTACTTAAAGTAGATTTGGAGAATCGTTGTCAGAGC
CTTACTGAGGACTTGAGTTTCGCAAAAGCATGTATGAAGAGGAGATTAACGAGACCAGAAGGAAGCATGAAACG
CGCTTGGTAGAGGTGGATTCTGGGCGTCAAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGA
GAGCAACATGATGCCCAAGTGAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAACTTGAGAATGCC
AGACTGTCATCAGAGATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAACTGATGGAAAGCCGCATGAGAATT
GAGAGCCTTTCATCCAGCTTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGGAAGGATTCAAGAATTAGAG
GACTTGCTTGCTAAAGAAAAAGACAACCTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAATAAGG
GATCAAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAAGTTAGCCCTGGACATGGAAATCAGT
GCTTACAGGAACTCTTAGAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCCTTCTTCCCGTGTGACAGTA
TCCCGAGCATCCTCAAGTCGTAGTGACGTACAACAGAGGAAAGCGGAAGAGGGTTGATGTGGAAGAATCAGAG
GCGAGTAGTAGTGTTAGCATCTCTCATTCCGCTCAGCCACTGGAAATGTTTGCATCGAAGAAATTGATGTTGAT
GGGAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGGAGGCTGGGAGATGATCAGAAAAATT
GGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTGAAGGCAGGCCAGACTGTTACAATTTGGGCT
GCAAACGCTGGTGTACAGCCAGCCCCCACTGACCTCATCTGGAAGAACCAGAACTCGTGGGGCACTGGCGAA
GATGTGAAGGTTATATT'GAAAAATTCTCAGGGAGAGGAGGTTGCTCAAAGAAGTACAGTCTTTAAAACAACCATA
CCTGAAGAAGAGGAGGAGGAGGAAGAAGCAGCTGGAGTGTTGTTGAGGAAGAAGCTTTCCACCAGCAGGGAACC
CCAAGAGCATCCAATAGAAGCTGTGCAATTATGTAATAATTTCAACTGTCTTCTCAAATAAAGAAGTATGGTA
ATCTTTACCTGTATACAGTGCAGAGCCTTCTCAGAAGCACAGAATATTTTTATATTTCTTTATGTGAATTTTGA
AGCTGCAAATCTGATGGCCTTAATTTCTTTTGTGACTGAAAGTTTTGTAAAAGAAATCATGTCCATACACTTT
GTTGCAAGATGTGAATTATTGACACTGAACTTAATAACTGTGTACTGTTTCGGAAGGGGTTCTCAAATTTTTTGA
CTTTTTTTGTATGTGTGTTTTTTCTTTTTTTTAAAGTTCTTATGAGGAGGGGAGGGTAAATAAACCCTGTGCGT
CTTGGTGTAATTTGAAGATTGCCCCATCTAGACTAGCAATCTCTTCAATTATTCTCTGCTATATATAAACGGTGC
TGTGAGGGAGGGGAAAAGCATTTTTCAATATATTGAACTTTTGTACTGAATTTTTTTGTAATAAGCAATCAAGGT
TATAATTTTTTTTTAAATAGAAATTTTGTAAAGGCAATATTAACCTAATCACCATGTAAGCACTCTGGATGAT
GGATTCCACAAAACCTGGTTTTATGGTTACTTCTTCTTAGATTCTTAATTCATGAGGAGGGTGGGGGAGGGAG
GTGGAGGGAGGGAAGGGTTTCTCTATTAATAATGCATTGTTGTGTTTTTTAAGATAGTGTAACCTTGCTTAAATTT
CTTATGTGACATTAACAAATAAAAAAGCTCTTTT

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FIGURE 1719

MATATPVPPRMGSRAGGPTTPLSPTRL SRLQEKEELRELNDRLAVYIDKVR SLETENSALQLQVTEREEVVRGREL
TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLN YAKKESDLNGAQIKLREYEAALNSKDAALA
TALGDKKSLEGDLEDLKDQIAQLEASLAAAKQLADETLLKVDLENRCQSLTEDLEFRKSMYEEEEINETRRKHET
RLVEVD SGRQIEY EYKLAQALHEMREQHDAQVR LYKEELEQTYHAKLENARLSSEMNTSTVNSAREELMESRMRI
ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIRDQMQQQLNDYEQLLDVKLALDMEIS
AYRKLL EGEEERLKLSPSPSSRVTVSRASSSRSVRTTRGKRKRVDVEESEASSSVSISHSASATGNVCIEEIDVD
GKFIRLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVLKAGQTVTIWAANAGVTASPTD LIWKNQNSWGTGE
DVKVILKNSQGEEVAQRSTVFKTTIPEEEEEEEEAAGVVVEEELFHQQGTPRASNRSCAIM

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FIGURE 1720

GGTCTCTGGTCTCCCCCTCTCTGAGCACTCTGAGGTCCTTATGTCGTCAGAAGATCGAGAAGCTCAGGAGGATGAA
TTGCTGGCCCTGGCAAGTATTTACGATGGAGATGAATTTAGAAAAGCAGAGTCTGTCCAAGGTGGAGAAACCAGG
ATCTATTTGGATTTGCCACAGAATTTCAAGATATTTGTGAGCGGCAATTCAAATGAGTGTCTCCAGAATAGTGGC
TTTGAATACACCATTTGCTTTCTGCCTCCACTTGTGCTGAACCTTTGAACTGCCACCAGATTATCCATCCTCTTCC
CCACCTTCATTACACCTTAGTGGCAAAATGGCTGTACCAACTCAGCTATCTGCTCTATGCAAGCACTTAGACAAC
CTATGGGAAGAACACCGTGGCAGCGTGGTCCTGTTTGCCTGGATGCAATTTCTTAAGGAAGAGACCCTAGCATAC
TTGAATATTGTCTCTCCTTTTGGAGCTCAAGATTGGTTCTCAGAAAAAGTGCAGAGAAGGACAGCTCAAGCTTCT
CCCAACACAGAGCTAGATTTTGGAGGAGCTGCTGGATCTGATGTAGACCAAGAGGAAATTGTGGATGAGAGAGCA
GTGCAGGATGTGGAATCACTGTCAAATCTGATCCAGGAAATCTTGGACTTTGATCAAGCTCAGCAGATAAAATGC
TTTAATAGTAAATTGTTCTGTGCAGTATCTGTTTCTGTGAGAAGCTGGGTAGTGAATGCATGTACTTCTTGGAG
TGCAGGCATGTGTACTGCAAAGCCTGTCTGAAGGACTACTTTGAAATCCAGATCAGAGATGGCCAGGTTCAATGC
CTCAACTGCCCAGAACCAAAGTGCCCTTCGGTGGCCACTCCTGGTCAGGTCAAAGAGTTAGTGAAGCAGAGTTA
TTTGCCCGTTATGACCGCCTTCTCCTCCAGTCCTCCTTGGACCTGATGGCAGATGTGGTGTACTGCCCCCGGCCG
TGCTGCCAGCTGCCTGTGATGCAGGAACCTGGCTGCACCATGGGTATCTGCTCCAGCTGCAATTTTGCCTTCTGT
ACTTTGTGCAGGTTGACCTACCATGGGGTCTCCCCATGTAAGGTGACTGCAGAGAAATTAATGGACTTACGAAAT
GAATACCTGCAAGCGGATGAGGCTAATAAAAGACTTTTGGATCAAAGGTATGGTAAGAGAGTGATTTCAGAAGGCA
CTGGAAGAGATGGAAGTAAGGAGTGGCTAGAGAAGAACTCAAAGAGCTGCCCATGTTGTGGAACCTCCCATAGAG
AAATTAGACGGATGTAACAAGATGACATGTACTGGCTGTATGCAATATTTCTGTTGGATTTGCAITGGGTTCTCTC
TCTAGAGCAAACCCTTACAAACATTTCAATGACCCTGGTTCACCATGTTTTAACCGGCTGTTTTATGCTGTGGAT
GTTGACGACGATATTTGGGAAGATGAGGTAGAAGACTAGTTAACTACTGCTCAAGATATGGAAGTGGATTGTTTT
TCCCTAATCTTCCGTCAAGTACACAAAGTAACTTTGCGGGATATTTAGGGTACTATTCACTCTTCTCTGCGT
AGAAGATATGGAAGAACGAGGTTTATATTTTCATGTGGTACTACTGAAGAAGGTGCATTGATACATTTTAAATG
TAAGTTGAGAAAAATTTATAAGCCAAAGGTTCAAGAAATTAACCTACAGAA

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FIGURE 1721

CGCGGCGGCCTTTCTAGCCGCTGTCCCAAGGGTTGGTCTCGCGCTTTCGGCTGCGAGCTCTCTGTGGTGCTGGCA
GCGACATGTGGCGCCTCCCGGACTCCTGGGCGAGCTCTTCCCGTACACTGGGACCTAGCCTCTGGAGGGTGA
CTCCTAAGTCCACCAGCCAGATGGGCCTCAGACTACCTCCTCCACTTTGCTGGTTCCCTGTGCCTAACCTCGACA
GGTCAGGTCCCCATGGCCAGGCACGAGCGGGGTCCAAGGTCCCATGGATGGAAGGATGCCTTCCAATGGATGT
CTTCCCGTGTCTCCCCGAACACCCTATGGGATGCCATATCTTGGGGCACTCTGGCCGTGCTGGCCCTGCAGCTGG
CAAGGCAGATCCACTTCCAGGCATCCCTGCCAGCAGGACCTCAGCGGGTAGAACACTGCTCCTGGCACAGTCCCC
TGGACCGTTTCTTCTCATCTCCCTTGTGGCACCCATGCTCCTCACTGCGACAACACATCCTCCCCAGCCCCGATG
GCCCAGTCCCAGGCACACTGGCCTCAGGGAACCCAGGCTTGGCCAGGAAGAAGCCTCAGCTCAGCCCCGGA
TCTCACACAACCTTTGAGAGGAGCTCGTCCTCAGGACCCCTCTGAGGAAGGTCCCGGTGATTTTGGCTTCCCTGC
ATGCCAGTAGTAGCATCGAGTCCGAGGCAAAACCAGCCCAGCCTCAGCCCCTGGTGAAAAGGAACAAGATAAAT
CAAAAACCTTTCCCTTGAGGAGGCTGTGACTTCCATTTCAGCAGCTCTTCCAGCTCAGTGTTTCCATCGCTTTCA
ACTTCTTGGAACAGAGAACATGAAGAGTGGCGACACACGGCAGCCTTTTCTTACTTCCAGAAAGCTGCAGCCC
GCGGCTACAGCAAAGCGCAGTACAATGCGGGCTTGTGTGATGAGCATGGCAGAGGCACCCCCAGGGACATTAGCA
AGGCGGTCCCTTTATTATCAGTTGGCTGCCAGCCAGGGCCACAGCCTGGCTCAGTACCGCTATGCCAGGTGCCTAC
TACGAGACCCAGCCTCTTCGTGGAACCTGAGCGGCAGAGGGCAGTGCTCCTTGCTGAAGCAGGCTGCAGACTCAG
GCTTGAGAGAGGCCCAAGCTTTCTCGGGGTGCTTTTACCAAGGAGCCCTACCTGGATGAGCAGAGAGCTGTGA
AATATCTTTGGCTTGACAGCAACAATGGGGACTCACAGAGCAGGTACCACCTTGAATTTGCTATGAGAAAGGCC
TTGGTGTGCAGAGGAATCTGGGAGAGGCCTTGAGATGTTACCAGCAGTCAGCCGCTCTGGGAAATGAGGCCGCC
AGGAGAGGCTGCGAGCCCTCTTTTCCATGGGGGTGCGAGCCCCGGGGCCCAGCGACCTGACAGTTACAGGACTGA
AGTCTTTTCTCCAGCCCCCTCCCTCTGCAGCTTGAACACCCTGCTAGCAGGAACCTCACGCCTACCACATGCCTCGA
GCACAGGCAACCTTGGCCTCCTCTGCAGAAGTGGGCATCTCGGAGCCAGCCTGGAAGCCTCCAGCAGGGCTATTC
CCCCACACCCCTACCCACTGGAAAGGAGTGTTGTAAGACTAGGTTTTGGCTTAAGGTGAGATAAAACATAGTCCCT
GGTGCCCTCTTAGGGGCCAGAGCGGGCAGGAGGTTGGATAACAAAAATAGAGCATCAGCAACCCTTTCCAGGTAGA
AATTCCAGCGGGAGTTTCAGGTTCCCAAGCAATTTACGTACATGGCTGGTAAGTGACTGATCTTTCCCCCGCTT
GGTAGCCTCACAGATGAGTCTTGATGCATTACAGTCATTTCTGGTCTGTGCACCAAGGATGCATTTCAGTGAC
CTATGAAAAACCCCTACTGAAGGGTCCAGAGACCCTGGTGCTACCTTAGCCTTTGTCTTTGAGCAAATAACTTAC
CTTCTTCCCTCTTATGCCTGGGTTTTCTCACACTTAAATCTGTACTACTGTTTGCCAATGTCTGATGTGTGTATC
CCTGGTTACAAGAAGATTTTAGATGGTATTCAAATTAATATTTTCTATTTAGTTATATATTTAATGTATAATAT
AAAAATATGATTAGCATATTGACCTGTAGTTTGATAGATGTTCTGTCTAGGATAAAGCTAACTGTAAAAAATAAT
AGTGAATCAGTTTAAAGAAAAACATAACGTAAGAGTGGGCACAGATCCAGAGAGGTAGCAAAAATCACAGGGGTG
GTTCCATGAATGGCTGACACTTAGGAACTCTGAATTAGGCCATCCTCGAGACTAGCCCACCATTACCTCTGTT
CATCCCCCGTGGGCTCATAATCGTTTTTCATTTACCTTTGATTTGGAAGGAAGAAGTTTCTTGCCCAATGCCTG
GATGTGTCTGCTTGACTTTCAGAACTTCTCACCTCAGCCCTAAAGAGGGAGCCTGTGGGTCTCAGAGAGATATC
ACAATTTGAGTCCCAAAGAAGAGGCCAGATACCCACCCACCTTCCCCCAAATCTTAAGCACCTGCGCCAGTACAG
TCAAGAAGAGGAAAGTGTGTGAAGACCCAGGTCTGGCTCTGCCACTTGCTGGCCATGTACCTTGAAGCTGTGA
CCTGACTCCCTATATTGTTTCTCAGTTGTAGACCAAGGCAATGGTGTCTGCCCTCCTACCTTAGAAGACAAAT
GCAAGGGCATTTACACACAGAGAGGACCTTTGTGCTCACTTTGGCCAGGAGGCAGTGATGCTCATGGTTGCATG
ACTTTATGAGTCGCTGGGCCAGGGTGAGGACCTGGGCCTCCTGACTCCTGGCCAGAGTTCTTGTCCATCAGTTC
ATACTGCAATTTTATGTGAAAGCATTATGACTGTCTACCCATGGGAGAGTAAATGTAGATTGAATGCTAGGAGT
CTTAAAGCTGGAGAGTATAGATTTTGGAGTCCCCATTTGGGAAACATGTGCCAGAAATGTCTAGGTGTTAATAA
AACAGATATTGGATTATCTC

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FIGURE 1722

MWRLPGLLGRALPRTLGPSTLWRVTPKSTSPDGPQTTSSTLLVPVNPNDLRSRPHGPGTSGGPRSHGWKDAFQWMSS
RVSPNTLWDAISWGTAVLALQLARQIHFAQSLPAGPQORVEHCSWHSPDRFFSSPLWHPCSSLRQHILPSPDGP
APRHTGLREPRLGQEEASAQPRNFSHNSLRGARPQDPSEEGPGDFGFLHASSSIESEAKPAQPQPTGEKEQDKSK
TSLLEEAVTSIQQLFQLSVSIAFNFLGTENMKSGDHTAAFSYFQKAAARGYSKAQYNAGLCHEHGRGTPRDISKA
VLYYQLAASQGHSLAQYRYARCLLRDPASSWNPERQRAVSLLKQAADSGLREAQAFGLGVLFKEPYLDEQRAVKY
LWLAANNNGDSQSRYHLGICYEKGLGVQRNLGEALRCYQQSAALGNEAAQERLRALFSMGAAAPGPSDLTVTGLKS
FSSPSLCSLNTLLAGTSRLPHASSTGNLGLLCRSGHLGASLEASSRAIPHPYPLERSVVRLGFG

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FIGURE 1723A

GCCCTCCTGATTCTGGGGCCTCCCAGGATGGAGCACCTGAGGCACAGCCCAGGCCCTGGGGGGCAACGGCTACTG
CTGCCCTCCATGCTGCTAGCACTGCTGCTCCTGCTGGCTCCATCCCCAGGCCACGCCACTCGGGTAGTGTAACAG
GTGCCGGAGGAACAGCCACCCAACACCCTCATTGGGAGCCTCGCAGCCGACTATGGTTTTCCAGATGTGGGGCAC
CTGTACAAGCTAGAGGTGGGTGCCCCGTACCTTCGCGTGATGGCAAGACAGGTGACATTTTACCACCGAGACC
TCCATCGACCGTGAGGGGCTCCGTGAATGCCAGAACAGCTCCCTGGTGATCCCTGCATCCTGGAGTTTGAGGTA
TCTATCACAGACCTCGTGCAGAATGGCAGCCCCCGGCTGCTAGAGGGCCAGATAGAAGTACAAGACATCAATGAC
AACACACCCAACCTTCGCCTCACCAGTCATCACTCTGGCCATCCCTGAGAACACCAACATCGGCTCACTCTTCCCC
ATCCCGCTGGCTTCAGACCGTGATGCTGGTCCCCAACGGTGTTGGCATCCTATGAGCTGCAGGTGGCAGAGGACCAG
GAGGAGAAGCAACCACAGCTCATTGTGATGGGCAACCTGGACCGTGAGCGCTGGGACTCCTATGACCTCACCATC
AAGGTGCAGGATGGCGGCAGCCCCCACGCGCCAGCAGTGCCCTGCTGCGTGTACCGTGCTTGACACCAATGAC
AACGCCCCCAAGTTTGAGCGGCCCTCCTATGAGGCCGAACCTATCTGAGAATAGCCCCATAGGCCACTCGGTTCATC
CAGGTGAAGGCCAATGACTCAGACCAAGGTGCCAATGCAGAAATCGAATACACATTCCACCAGGCGCCCGAAGTT
GTGAGGCGTCTTCTTCGACTGGACAGGAACACTGGACTTATCACTGTTTCAGGGCCCGGTGGACCGTGAGGACCTA
AGCACCTGCGCTTCTCAGTGCTTGCTAAGGACCGAGGCACCAACCCCAAGAGTGCCCGTGCCAGGTGGTTGTG
ACCGTGAAGGACATGAATGACAATGCCCCACCATTGAGATCCGGGGCATAGGGCTAGTGACTCATCAAGATGGG
ATGGCTAACATCTCAGAGGATGTGGCAGAGGAGACAGCTGTGGCCCTGGTGACGGTGTCTGACCGAGATGAGGGA
GAGAATGCAGCTGTACCTGTGTGGTGGCAGGTGATGTGCCCTTCAGCTGCGCCAGGCCAGTGAGACAGGCAGT
GACAGCAAGAAGAAGTATTTCTGCAGACTACCACCCCGCTAGACTACGAGAAGGTCAAAGACTACACCATTGAG
ATTGTGGCTGTGGACTCTGGCAACCCCCCACTCTCCAGCACTAACTCCCTCAAGGTGCAGGTGGTGGACGTCAAT
GACAACGCACCTGTCTTCACTCAGAGTGCTCACTGAGGTGCGCTTCCCGGAAAACAACAAGCCTGGTGAAGTGATT
GCTGAGATCACTGCCAGTGATGCTGACTCTGGCTCTAATGCTGAGCTGGTTTACTCTCTGGAGCCTGAGCCGGCT
GCTAAGGGCCTCTTACCATCTCACCCGAGACTGGAGAGATCCAGGTGAAGACATCTCTGGATCGGGAACAGCGG
GAGAGCTATGAGTTGAAGGTGGTGGCAGCTGACCGGGGCGAGTCCTAGCCTCCAGGGCACAGCCACTGTCTTGTG
AATGTGCTGGACTGCAATGACAATGACCCCAAATTTATGCTGAGTGGCTACAACCTTCTCAGTGATGGAGAACATG
CCAGCACTGAGTCCAGTGGGCATGGTGAATGATGGAGACAAGGGGGAGAATGCCCAGGTGCAGCTCTCA
GTGGAGCAGGACAACGGTGACTTTGTTATCCAGAATGGCACAGGCACCATCCTATCCAGCCTGAGCTTTGATCGA
GAGCAACAAAGCACCTACACCTTCCAGCTGAAGGCAGTGGATGGTGGCGTCCACCTCGCTCAGCTTACGTTGGT
GTCACCATCAATGTGCTGGACGAGAATGACAACGCACCCCTATATCACTGCCCTTCTAACACCTCTCACAAGCTG
CTGACCCCCCAGACACGTCTTGGTGAGACGGTCAGCCAGGTGGCAGCCGAGGACTTTGACTCTGGTGTCAATGCT
GAGCTGATCTACAGCATTGCAGGTGGCAACCCCTTATGGACTCTTCCAGATTGGGTACATTTCAGGTGCCATCACC
CTGGAGAAGGAGATTGAGCGGCGCCACCATGGGCTACACCGCCTGGTGGTGAAGGTCAAGTACCGCGGCAAGCCC
CCACGCTATGGCACAGCCTTGGTCCATCTTTATGTCAATGAGACTCTGGCCAACCGCACGCTGCTGGAGACCCTC
CTGGGGCCACAGCCTGGACACGCGCTGGATATTGACATTGCTGGGGATCCAGAATATGAGCGCTCCAAGCAGCGT
GGCAACATTCTCTTTGGTGTGGTGGCTGGTGTGGTGGCCGTGGCCTTGCTCATCGCCCTGGCGGTTCTTGTGCGC
TACTGCAGACAGCGGGAGGCCAAAAGTGGTTACCAGGCTGGTAAGAAGGAGACCAAGGACCTGTATGCCCCAAG
CCCAGTGGCAAGGCCTCCAAGGGAAAACAAAAGCAAAGGCAAGAAGAGCAAGTCCCCAAAGCCCGTGAAGCCAGTG
GAGGACGAGGATGAGGCCGGGCTGCAGAAGTCCCTCAAGTTCAACCTGATGAGCGATGCCCCCTGGGGACAGTCCC
CGCATCCACCTGCCCCTCAACTACCCACCAGGCAGCCCTGACCTGGGCGGCCACTATCGCTCTAACTCCCCACTG
CCTTCCATCCAGCTGCAGCCCCAGTCACCCCTCAGCCTCCAAGAAGCACCAGGTGGTACAGGACCTGCCACCTGCA
AACACATTTCGTGGGCACCGGGGACACCAGTCCACGGGCTCTGAGCAGTACTCCGACTACAGCTACCGCACCAAC
CCCCCAAATACCCAGCAAGCAGTTACCTCACCAGCGCGTACCTTCTCGGCCACCAGCCAGGCCCAGGAGCTG
CAGGACCCATCCCAGCACAGTTACTATGACAGTGGCCTGGAGGAGTCTGAGACGCGCTCCAGCAAGTCATCCTCA
GGCCTCGACTCGGTCCCCTGGCCCTGCCTGAGGATCACTATGAGCGCACCAACCCCTGATGGCAGCATAGGAGAG
ATGGAGCACCCCGAGAATGACCTTCGCCCTTTGCTGATGTGCGCATGACAGGCACATGTACCCGGGAGTGACGT
GAGTTTGGCCACTCTGACACATGCTGGATGCCTGGCCAGTCATCTCCAGCCGCGGACCAAGAGCAGCGCCCTC
AACTCTCCACCTTCGTGCCTTACCAGGACCGAGGAGGGCAGGAGCCTGCGGGCGCCGGCAGCCCCAGCCCCCGG
GAAGACCGGAACACCAAAACGGCCCCCGTGCGCCTCCTGCCCTCCTACAGTGCCCTTCTCCACAGTAGCCATGAT
TCCTGCAAGGACTCGGCCACCTTGGAGGAAATCCCCCTGACCCAGACCTCGGACTTCCACCCGAGCCACACCG

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FIGURE 1723B

GCATCTGCCCAGACGGCCAAGCGCGAGATCTACCTGTGAGCCCCCTACTGGCCGGCCGGCCCCCCTCCCCAGCC
GCCGGCCAGCTCCCAAATGGCCCATTCAGGGCCTCACTCTCCACCCCTTCAGCGTGGACTTCCTGGCCAGGGCC
CCAAGTGGGGGTATCACTGACCTCATGACCACGCTGGCCCTTCTCCCATGCAGGGTCCAGGTCCTCTCCCTCAT
TTCCATCTCCCAGCCCCCAGGGGCCCTTCCCTTTATGGGGCTTCCCCATCTGATGCCCAAGAGGGCTCCTCT
GCAATGACTGGGCTCCTTCCCTTGACTTCCAGGGAGCACCCCTCGATTTGGGCAGATGGTGGAGTCAAGGGTGG
GCAGCGTACTTCTAACTCATTGTTTCCCTCATGGCCGACCAGGGCGGGGATAGCATGCCCAATTTAGCCCTGAA
GCAGGGCTGAACTGGGGAGCCCCCTTCCCTGGGAGCTCCCAGAGGAACTCTTGACCACCAGTGGCTCCCTGAAG
GGCTTTTGTTACCAAAGGTGGGGTAGGGACGGGGGTGGGAGTGGAGCGGAGGCCTTGTTTTCCCGTG

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FIGURE 1724

GGAGACGCTTCTTCTCTTGCTGCTCTTCTCGTTCCCGAGATCAGCGGCGGCGGTGACCGCGAGTGGGTTCGGCAC
CGTCTCCGGCTCCGGGTGCGAACAATGCTGACTGATAGCGGAGGCGGCGGCACCTCCTTTGAGGAGGACCTGGAC
TCTGTGGCTCCGCGATCCGCCCCAGCTGGGGCCTCGGAGCCGCTCCGCCGGGAGGGGTCTGGGGATCCGC
ACCGTGAGGCTCTTTGGGGAGGCCGGGCCAGCGTCGGGAGTCGGCAGCAGCGGCGGCGGCGGCAGCGGCAGCGGT
ACGGGCGGAGGGGACGCGGCGCTGGATTTCAAGTTGGCGGCTGCCGTGCTGAGGACCGGGGGTGGAGGTGGTGCC
TCTGGCAGTGACGAGGACGAAGTGTCGAGGTTGAATCATTTATTTGGACCAAGAAGATCTGGATAACCCAGTG
CTTAAAACAACATCAGAGATAATTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTGGATCCAGAGACA
CAGGCACGACTAGAAGCATTGCTAGAAGCAGCAGGAATTGGCAAATTGTCAACTGCTGATGGTAAAGCTTTTGCA
GATCCTGAGGTACTCCGAGACTGACATCCTCAGTTAGTTGTGCACTGGATGAAGCTGCTGCTGCACTGACACGG
ATGAAGCAGAAAACAGCCACAATGCAGGACAAGTGGACACTCGCAGTCTAGCAGAAGCTTGTTTCTAGATGGGGAT
GTTAATGCTGTTTCGTAAATTGCTAGATGAAGGCAGAAGTGTAATGAACATACAGAAGAAGGAGAAAGCCTGCTG
TGTTTGGCTTGTTTCTAGCAGGGTATTATGAATTAGCACAAAGTATTGCTTGCTATGCATGCTAATGTTGAAGATCGA
GGGAATAAAGGAGACATAACTCCCTGATGGCAGCTTCCAGTGGAGGTTACTTAGATATTGTGAAATTATTACTT
CTTCATGATGCTGATGTCAACTCCAGTCTGCAACAGGAAACACTGCGCTAACTTATGCATGTGCTGGAGGATTT
GTTGACATTGTTAAAGTGCTCCTTAATGAAGGTGCAAAATATAGAAGATCATAATGAAATGGACATACTCCCTTA
ATGGAAGCAGCCAGTGCAGGTATGTGGAAGTTGCAAGAGTTCTTTTAGATCATGGTGCAGGCATCAACACTCAT
TCTAATGAATTCAAAGAAAGTGCTCTAACACTTGCTTGCTACAAAGGCCATTGGATATGGTTCGCTTTCTACTT
GAAGCTGGTGCAGATCAAGAGCACAAAACAGATGAGATGCACACTGCCTTAATGGAGGCCTGCATGGATGGACAT
GTAGAGGTGGCACGTTTGCTTTTGATAGTGGTGCTCAAGTGAACATGCCTGCAGATTCAATTTGAATCTCCATTG
ACGCTAGCTGCCTGTGGAGGACATGTTGAATTGGCAGCTCTACTTATTGAAAGGGGAGCAAATCTTGAAGAAGTT
AATGATGAAGGATACACTCCCTTGATGGAAGCTGCCCCGGAAGGACATGAAGAAATGGTGGCACTACTCTTAGCA
CAAGGAGCAAATATAAATGCCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGCTGTGGAGGATTT
TCTGAAGTTGCAGACTTTCTTATTAAGGCAGGGGCTGATATAGAACCTTGCTGCTCCACACCTCTGATGGAGGCA
TCTCAGGAGGGACACCTGGAATTGGTTAAATATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACA
GGAGACACAGCCTTAACCTATGCTTGTAAGTGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGGGGCT
GATTTAGACAAGCAGGAGGACATGAAGACTATTTTGGAGGGCATAGATCCGCCAAGCATCAGGTGAGGGTGGCC
TTTGATGCTTGTAAGCTACTACGTAAAGAATAGATGTGTTGTAGGTAACCAGAACTCTGGATATCTGAATTCAGCC
AAGAAGTTCCAGGACCCTGCTGGGTGACAAAGGAAATCCTCTTCAATTGAAAAAGATTATGAAGTCCCAATAAAA
AGAGATTTGTATTGCTGGTAAAAA

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FIGURE 1725

MKAENSHNAGQVDTRSLAEACSDGDVNAVVRKLLDEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDR
GNKGDITPLMAASSGGYLDIVKLLLLHDADVNSQSATGNTALTYACAGGFVDIVKVLLNEGANIEDHNENGHTPL
MEAASAGHVEVARVLLDHGAGINTHSNEFKESALTACYKGHLDMVRFLEAGADQEHKTDEMHTALMEACMDGH
VEVARLLLDSGAQVNMPADSFESPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAAREGHEEMVALLLA
QGANINAQTEETQETALTACC GG FSEVADFLIKAGADIELGCSTPLMEASQEGHLELVKYL LASGANVHATTAT
GDTALTYACENGHTDVADVLLQAGADLDKQEDMKTILEGIDPAKHQVRVAFDACKLLRKE

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FIGURE 1726

GGCACGAGGGCGGGGAAGATGGCGGATGACAAGGATTCTCTGCCTAAGCTTAAGGACCTGGCATTCTCAAGAAC
CAGCTGGAAAAGCCTGCAGCGGCGTGTAGAAGACGAAGTCAACAGTGGAGTGGGCCAGGATGGCTCGCTGTTGTCC
TCCCCGTTCCCTCAAGGGATTCCCTGGCTGGCTATGTGGTGGCCAAACTGAGGGCATCAGCAGTATTGGGCTTTGCT
GTGGGCACCTGCACTGGCATCTATGCGGCTCAGGCATATGCTGTGCCAACGTGGAGAAGACATTAAGGGACTAT
TTGCAGTTGCTACGCAAGGGGCCCCGACTAGCTCTAGGTGCCATGGAAGAGGCAGGATGAGCAGCTCAGCCTTCAG
GTGGAGACACTTTATCTGGATTCCCCAGCTGTCATCCATTGTCTATCTCCAACCTTCTGCCCACCTTCATCCTTG
CCTCCCTTCCCTGCAGATTGTGGACAGTAGTTCCCTCAGCCTGCACCCTGGATTCTTCTTCCCCTTCCCTAGCTCCA
TGGGACTCGCCCCAAGACTGTGGCTTCAAGGACCACCAGCCCCCTTACTCTTCAAGCCCTGACTGTGGAGTTGGTA
GATGCCTCTGATCCTCAGTATTCTCTCTGGCAATGTTCCACGGCTTCTCCTTCTGGGAGCTGGCTCCATAACTT
GATTTTCCCCAAACGTGTTGCAATCCCTGCTGCCCCCTTAGCCACCCAGGGTCTTGTGTGGGTATGAGTGTAGAGG
ATGGGGGTATGCCAGGCCTGGGCCGTCCCAGGCAGGCCCGCTGGACCCTGATGCTACTCCTATCCACTGCCATGT
ACGGTGCCCATGCCCATTTGCTGGCACTGTGCCATGTGGACGGCCGAGTGCCCTTCCGGCCCTCCTCAGCCGTGC
TGCTGACTGAGCTGACCAAGCTACTGTTATGCGCCTTCTCCCTTCTGGTAGGCTGGCAAGCATGGCCCCAGGGGC
CCCCACCCTGGCGCCAGGCTGCTCCCTTCGCACTATCAGCCCTGCTCTATGGCGCTAACAACAACCTGGTGATCT
ATCTTCAGCGTTACATGGACCCAGCACCTACCAGGTGCTGAGTAATCTCAAGATTGGAAGCACAGCTGTGCTCT
ACTGCCTCTGCCTCCGGCACCGCCTCTCTGTGCGTCAGGGGTTAGCGCTGCTGCTGCTGATGGCTGCGGGAGCCT
GCTATGCAGCAGGGGGCCTTCAAGTTCCCGGGAACACCCTTCCCAGTCCCCCTCCAGCAGCTGCTGCCAGCCCCA
TGCCCCTGCATATCACTCCGCTAGGCCGTGCTGCTCCTCATTCTGTACTGCCTCATCTCAGGCTTGTGCTCAGTGT
ACACAGAGCTGCTCATGAAGCGACAGCGGCTGCCCTGGCACTTCAGAACCTCTTCCCTCTACACTTTTGGTGTGC
TTCTGAATCTAGGTCTGCATGCTGGCGGCGGCTCTGGCCCAGGCCTCCTGGAAGGTTTCTCAGGATGGGCAGCAC
TCGTGGTGTGAGCCAGGCACATAATGGACTGCTCATGTCTGCTGTGATGAAGCATGGCAGCAGCATCACACGCC
TCTTTGTGGTGTCTGCTCGCTGGTGGTCAACGCCGTGCTCTCAGCAGTCTGCTACGGCTGCAGCTCACAGCCG
CCTTCTTCCCTGGCCACATTGCTCATTGGCCTGGCCATGCGCCTGTACTATGGCAGCCGCTAGTCCCTGACAACTT
CCACCCTGATTCLGGACCTGTAGATTGGGCGCCACCACCAGATCCCCCTCCAGGCCTTCTCCTCTCCCATC
AGCAGCCCTGTAACAAGTGCTTGTGAGAAAAGCTGGAGAAGTGAAGGCAGCCAGGTTATTCTCTGGAGGTTGGT
GGATGAAGGGGTACCCCTAGGAGATGTGAAGTGTGGGTTTGGTTAAGGAAATGCTTACCATCCCCCACCCTAAC
CAAGTTCTTCCAGACTAAAGAATTAAGGTAACATCAATACCTAGGCCTGAGAAATAACCCCATCCTTGTGGGCA
GCTCCCTGCTTTGTCTGCTGATGAACAGAGTTGATGAAAGTGGGGTGTGGGCAACAAGTGGCTTTCTTGCCTACT
TTAGTCAACCAGCAGAGCCACTGGAGCTGGCTAGTCCAGCCAGCCATGGTGCATGACTCTTCCATAAGGGATCC
TCACCCTTCCACTTTTCAATGCAAGAAGGCCAGTTGCCACAGATTATACAACCATTACCCAAACCACTCTGACAGT
CTCCTCCAGTTCCAGCAATGCCTAGAGACATGCTCCCTGCCCTCTCCACAGTGTGCTCCCCACACCTAGCCTTT
GTTCTGGAAACCCAGAGAGGGCTGGGCTTACTCATCTCAGGGAATGTAGCCCCTGGGCCCTGGCTTAAGCCGA
CACTCCTGACCTCTCTGTTACCCCTGAGGGCTGTCTTGAAGCCCGCTACCCACTCTGAGGCTCCTAGGAGGTACC
ATGCTTCCCACTCTGGGGCCTGCCCTGCCTAGCAGTCTCCAGCTCCCAACAGCCTGGGGAAGCTCTGCACAGA
GTGACCTGAGACCAGGTACAGGAAACCTGTAGCTCAATCAGTGTCTCTTTAACTGCATAAGCAATAAGATCTTAA
TAAAGTCTTCTAGGCTGTAGGGTGGTTCCTACAACCACAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1727

MSVEDGGMPGLGRPRQARWTLMLLLSTAMYGAHAPLLALCHVDGRVPFRPSSAVLLTELTKLLLCAFSLIVGWQA
WPQGPPPPWRQAAPFALSALLYGANNNLVIYLRQYMDPSTYQVLSNLKIGSTAVLYCLCLRHRLSVRQGLALLLLM
AAGACYAAGGLQVPGNTLPSPPPAAAASPMPLHITPLGLLLLLILYCLISGLSSVYTELLMKRQRLPLALQNLFLY
TFGVLLNLGLHAGGSGPGLLEGFSGWAALVVLSQALNGLLMSAVMKHGSSITRLFVVSCSLVVNAVLSAVLLRL
QLTAAFFLATLLIGLAMRLYYGSR

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FIGURE 1728A

CAGAAAGCCATGTCGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGTAGTGAGATGCTCCAGAGGCCTGGAGGAGCGGACTGGTAAG
CACCGGGAGGGTAGTGGGAGTTTTGCTTCTGCTTGGTGCCTTGAACAAGGCTTCCACGGTCATTCACTATGAGAT
CCCCGAGGAAAGAGAGAAGGGTTTCGCTGTGGGCAACGTGGTCCGGAACCTTGGTTTGGATCTCGGTAGCCTCTC
AGCCCGCAGGTTCCGGGTGGTGTCTGGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTT
TGTGAACGACCGTCTGGATCGAGAGGAGCTGTGTGGGACACTGCCCTCTTGCACTGTAACCTCTGGAGTTGGTAGT
GGAGAACCCGCTGGAGCTGTTTACGCTGGAAGTGGTGATCCAGGACATCAACGACAACAATCCTGCTTTCCCTAC
CCAGGAAATGAAATTGGAGATTAGCGAGGCCGTGGCTCCGGGGACGCGCTTTCCGCTCGAGAGCGCGCACGATCC
CGATGTGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCGAGAACGGGAGCCTAGTCTCCAGTT
AGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCTCCGCCAGCCTGCCTATTACATCAAGGTGCTGGACGC
GAATGACAATGCGCCTGTCTTCAACAGTCTTGTACCGGGCGCGCGTCTTGAGGATGCACCTCCGGGCACGCG
CGTGGTACAAGTCTTCAACGGATCTGGATGAAGGCCCAACGGTGAAATTATTTACTCCTTCGGCAGCCACAA
CCGCGCCGGCGTGGGCAACTATTGCGCTTAGACCTTGTAACCGGGATGCTGACAATCAAGGTGCGGCTGGACTT
CGAGGACACCAAACTCCATGAGATTTACATCCAGGCCAAAGACAAGGGCGCCAATCCCGAAGGAGCACATTGCAA
AGTGTGGTGGAGGTTGTGGATGTGAATGACAACGCCCCGAGATCACAGTCACCTCCGTGTACAGCCCAGTACC
CGAGGATGCCCCCTGCGGGACTGTCATCGCTTTGCTCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGT
GACCTGCGAAGTTCACCGGGTCTCCCTTTAGCCTTACTTCTTCCCTCAAGAATTACTTCACTTTGAAAACAG
TGCAGACCTGGATCGGGAGACTGTGCCAGAATACAACCTCAGCATCACCGCCGAGACGCCGGAACCCCTTCCCT
CTCAGCCCTTACAATAGTGCGTGTTCAGTGTCCGACATCAATGACAACCCCTCCACAATCTTCTCAATCTTCCTA
CGACGTTTACATTGAAGAAAACAACCTCCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGGACCCCGACGCCCC
GCAGAATGCTCGGCTTTCTTTCTTTCTTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGGTGCTATTTCACAAT
AAATCGTGACAATGGCATAAGTGTATCCTTAGTGCCCTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGGCACCCCGGTCTAGCCACCAACATCAGCGTGAACATATTTGTCACTGATCGCAATGA
CAATGCCCCCAGGTCTATATCTCGGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTACCTCAGCTGG
CCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAATGCCTGGCTCTCCTACAGTCTCTTGGG
ATCCCCTAACAGAGCCTTTTGGCATAGGGCTGCACACTGGTCAAATCAGTACTGCCCGTCCAGTCCAAGACAC
AGATTCACCCAGGCAGACTCTCAGGTCTTGATCAAAGACAATGGGGAGCCTTCGCTCTCCACCACTGCTACCCCT
CACTGTGTAGTAACCGAGGACTCTCCTGAAGCCCGAGCCGAGTTCCCCTCTGGCTCTGCCCCCGGGAGCAGAA
AAAAAATCTCACCTTTTATCTACTTCTTTCTCTAATCTGGTTTCTGTGGGGTTTGTGGTTCAGTGTTCGGAGT
AATCATATTCAAAGTTTACAAGTGAAGCAGTCTAGAGACCTATACCGAGCCCCGGTGAGCTCACTGTACCGAAC
ACCAGGGCCCTCCTTGCACGCGGACGCCGTGCGGGGAGGCCTGATGTGCGCGCACCTTTACCATCAGGTGTATCT
CACCACGGAATCCCGCCGACGACCCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGCCAGAA
CACGCTGCGGAGCTGTGATCCGGTGTCTATAGGCAGGTGTTGGGTGCAGAGAGCGCCCCCTCCCGGACAGCAAGC
CCGCCCCAACACGGAATGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACAC
CGGCACCTGGCCCAACAACAGTTTGAACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGC
TGATGGGAGCTCCACCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCGCTACGGACCCAGTTACCCCT
GCAGCACGTGCCCCGACTACCGCCAGAAATGCTTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAA
GCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGG
AGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGA
GTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCCCCA
GTCAGCACCTACCCCTTCCCCCCAGGGGGTTGAATATGCAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAA
CTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCT
GAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCATGCCCTCCCTCCTCCCCACCCACTCCAACAGTT
CCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGG
AAGGGCATCATGACCTCTTGGCCTCTCCTTGTATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCCCTT
CACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTT
GCTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTT

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FIGURE 1728B

CATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTC
CAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGA
CACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGC
CATAAACCAATAACTAGGCTGGACCCCTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAG
CTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTG
AGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGGAAGGTCAGCGGAGCCCCAGC
AGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGA
ACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTG
CCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTA
AAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGGCCATCCAG
CGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAAT
AGCCAGTAGTGTAGTGC GG GTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGCGGGCTCCGCGCAGCCGTCT
GTCCTTGATCTGCCCCGCGGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGT
ACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCACGC
AAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCT
G

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FIGURE 1729

MVPEAWRSGLVSTGRVVGVLALLLGALNKASTVIHYEIPEREKGFVGNVAVNLGLDLGSLASRRFRVVGASRR
FFEVRNRETGEMFVNDRLDREELCGTLP SCTVTLELVVENPLELFSVEVVIQDINDNNPAFPTQEMKLEISEAVAP
GTRFPLESAHDPDVGNSLQTYELSRNEYFALRVQTREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALS
ASLP IHIKVL DANDNAPVFVNQSLYRVRVLE DAPSGTRVVQVLATDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV
TGMLTIKGRLD FEDTKLHEIYIQAKDKGANPEGACHCKVLVEVVDVNDNAPEITVTSVYSPVPEDAPLGTVIALLS
VTDLDAGENGLVTCEVPPGLPFSLTSSLKNYFTLKT SADLDRET VPEYNLSITARDAGTPSLSALTIVRVQVSDI
NDNPPQSSQSSYDVYIEENNLPGAPILNLSVWDPDAPQNA RL SFFLLEQGAETGLVGRYFTINRDNGIVSSLVPL
DYEDRREFELTAHISDGGTPVLATNISVNIFVTDNRNDNAPQVLYPRPGSSVEMLPRGTSAGHLVSRVVGWDADA
GHNAWLSYSLLGSPNQSLFAIGLHTGQISTARPVQD TDS PRQTLTVLIKDNGEPSLSTTATLT VSVTEDSPEARA
EFPSGSAPREQKNLTFYLLLSLILVSVGFVVTVFGV IIFKVYKWKQSRDLYRAPVSSLYRTPGPSLHADAVRGG
LMSPHLYHQVYLTTDSRRSDPLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQQAPPNTDWRFSQAQR
PGTSGSQNGDDTGTPNPNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIP
GSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1730A

ACGCGCCTGAAGCACAAAGCAGATAGCTAGGAATGAACCATCCCTGGGAGTATGTGGAAACAACGGAGGAGCTCT
GACTTCCCAACTGTCCCATTTCTATGGGCGAAGGAAGTCTCTGACTTCAGTGGTTAAGGGCAGAATTGAAAATA
ATTCTGGAGGAAGATAAGAATGATTTCCTGCGCGACTGCACCGGGACTACAAAGGGCTTGCTCTGCTGGGAATCCT
CCTGGGGACTCTGTGGGAGACCGGATGCACCCAGATACGCTATTCAGTTCCGGAAGAGCTGGAGAAAGGCTCTAG
GGTGGGCGACATCTCCAGGGACCTGGGGCTGGAGCCCCGGGAGCTCGCGGAGCGCGGAGTCCGCATCATCCCCAG
AGGTAGGACGCAGCTTTTCGCCCTGAATCCGCGCAGCGGCAGCTTGGTCACGGCGGGCAGGATAGACCGGGAGGA
GCTCTGTATGGGGGCCATCAAGTGTCAATTAAATCTAGACATTCTGATGGAGGATAAAGTGAATAATATATGGAGT
AGAAGTAGAAGTAAGGGACATTAAACGACAATGCGCCTTACTTTTCGTGAAAGTGAATTAGAAATAAAAATTAGTGA
AAATGCAGCCACTGAGATGCGGTTCCCTCTACCCACGCTGGGATCCGGATATCGGGAAGAAGTCTCTGCAGAG
CTACGAGCTCAGCCCGAACACTCACTTCTCCCTCATCGTGAAAATGGAGCCGACGGTAGTAAGTACCCCGAATT
GGTGTCTGAAACGCGCCCTGGACCGCGAAGAAAAGGCTGCTCACCACCTGGTCCCTTACGGCCTCCGACGGGGCGA
CCCCGTGCGCACAGGCACCGCGCGCATCCGCGTGATGGTTCTGGATGCGAACGACAACGCACCAGCGTTTGCTCA
GCCCCAGTACCGCGCGAGCGTTCCGGAGAATCTGGCCTTGGGCACGCAGCTGCTTGTAGTCAACGCTACCGACCC
TGACGAAGGAGTCAATGCGGAAGTGAGGTATTCCCTCCGGTATGTGGACGACAAGGCGGCCCAAGTTTCAAAGT
AGATTGTAATTCAGGGACAATATCAACAATAGGGGAGTTGGACCACGAGGAGTCAGGATTCTACCAGATGGAAGT
GCAAGCAATGGATAATGCAGGATATTCTGCGCGAGCCAAAGTCTGATCACTGTTCTGGACGTGAACGACAATGC
CCCAGAAGTGGTCCCTCACCTCTCTCGCCAGCTCGGTTCCCGAAAAGTCTCCAGAGGGACATTAATTGCCCTTTT
AAATGTAAATGACCAAGATTCTGAGGAAAACGACAGGTGATCTGTTTCATCCAAGGAAATCTGCCCTTTAAATT
AGAAAAATCTTACGGAAATTACTATAGTTTAGTCACAGACATAGTCTTGGATAGGGAACAGGTTCCCTAGCTACAA
CATCACAGTGACCGCCACTGACCGGGGAACCCCGCCCTATCCACGGAAACTCATATCTCGTGACGTGGCAGAA
CACCAACGACAACCCGCCGGTCTTCCCTCAGGCCTCCTATTCCGCTTATATCCCAGAGAACAATCCCAGAGGAGT
TTCCCTCGTCTCTGTGACCGCCACGACCCCGACTGTGAAGAGAACGCCCAGATCACTTATCCCTGGCTGAGAA
CACCATCCAAGGGGCAAGCCTATCGTCCCTACGTGTCCATCAACTCCGACACTGGGGTACTGTATGCGCTGAGCTC
CTTCGACTACGAGCAGTTCCGAGACTTGCAAGTGAAAGTGATGGCGCGGGACAACGGGCACCCGCCCTCAGCAG
CAACGTGTGCTTGAGCCTGTTCTGCTGGACCAGAACGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCAC
GGACCGGTTCCACTGGCGTGGAGCTGGCTCCCCGCTCCGCGAGCCCGGCTACCTGGTGACCAAGGTGGTGCGGT
GGACAGAGACTCCGGCCAGAACGCCTGGCTGTCTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGT
GGGTCTGCACACGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTAGT
GGCCGTCCAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTACGCTCACCCTGGCCGTGGCCGACAGCATCCC
CCAAGTCTTGCGGACCTCGGCAGCCTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGT
GGTAGCGGTGGCCGCGGTCTCCTGCGTCTTCTTGGCCTTCTGTCATCTTGTGCTGGCGCTCAGGCTGCGGCGCTG
GCACAAGTCACGCCTGCTGCAGGCTTCAGGAGGCGGCTTGACAGGAGCGCCGGCGTTCGCACTTTGTGGGCGTGGA
CGGGGTGCAGGCTTTCTGAGACCTATTCACAGAGGTTTCCCTCACCACGGACTCGCGGAAGAGTCACCTGAT
CTTCCCCCAGCCCAACTATGCAGACATGCTCGTCAGCCAGGAGAGCTTTGAAAAAGCGAGCCCCCTTTTGCTGTC
AGGTGATTGCGTATTTTCTAAAGACAGTCATGGGTAAATTGAGCAAGCCCCGCCAACACGGACTGGCGTTTCTC
TCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGA
CACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGG
TGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAGCACGTGCCCCGACTACCGCCAGAA
TGTCTACATCCCAGGCAGCAATGCCCACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGG
CAATGGCAACAAGAAGAAGTGGGGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGC
CTCTCCCCAACCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTG
GTAGGGGCCAAGGCCATGCTCCCCCTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGG
GGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGT
TACTGTAGACACCAAGAACCATTGTCACACCCCGTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCA
GGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGG
TGTTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTC
CTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAAT
GCTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGGATTTAGGGAGGGCATTGCTA

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FIGURE 1730B

CCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCC
TTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAG
GAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCCTTGGAGG
AGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAAACCAATAACTAGGCTGGACCCT
TCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGC
ATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGC
TGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTC
TTAGTCCCTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAAGTCTCAGCCCAGGATGGGGC
TTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGG
CCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATA
GACCTTCTTCTCCCACCCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTG
CCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTT
TACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGT
GTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTACTGACTTCTCCTATAAGCGCTTCTCT
TCGCATAGTCACGTAGCTCCCACCCCACCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGG
CTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1731

MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRELAERGVRIIPRGRTQLF
ALNPRSGSLVTAGRIDREELCMGAIKQLNLDILMEDKVKIYGVEVEVRDINDNAPYFRESELEIKISENAATEM
RFPLPHAWDPDIGKNSLQSYELSPNTHFSLIVQNGADGSKYPELVKRALDREEKAAHHLVLTASDGGDPVRTGT
ARIRVMVLDANDNAPAFAPQPEYRASVPENLALGTQLLVVNATDPDEGVNAEVRYSFYVDDKAAQVFKLDCNSGT
ISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVVLTSLASSVPENSPRGTLIALLNVDNDQD
SEENGQVICFIOGNLPFKLEKSYGNYYSLVTDIVLDREQVPSYNITVTATDRGTPPLSTETHISLNVADTNDNPP
VFPQASYSAYIPENNPRGVSLVSVTAHDPDCEENAQITYSLAENTIQQASLSYVSINSDTGVLYALSSFDYEQF
RDLQVKVMARDNGHPPLSSNVLSLFLVDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPQVLADL
GSLESPANSETSDLTLYLVVAVAAVSCVFLAFVILLALLRLRRWHKSRLLQASGGGLTGAPASHFVGVDGVQAFL
QTYSHVSLTTDSRKSHLIFPQPNYADMLVSQESFEKSEPLLLSGDSVFSKDSHGLIEQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1732A

ATGGGGAGCGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCCTGCTGTCTTTGTTCTGCCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCCCGAGGAAATGCCCAAGGGCTCCGTAAGTGGGGAACCTCGCCACGGACCTGGGGTTTCAGCGTCCAGGAGTTACCGACTCGAAAACCTGCGCGTCAGTTCGGAGAAGCCTTACTTCCCGTGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAGAAGCCAGCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCACGTGAATGTGGAGATCGAGGACATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTGCAAATAAGTGAGTCTGCACAGCCTGGCACA CGATTTATATTAGGATCTGCCCATGATGCGGATATTGGTAGCAACACACTGCAGAATTACCAACTCAGTCCCAGTGATCATTTCTCACTGATAAATAAAGAGAAATCAGATGGCAGTAAATACCCTGAGATGGTATTGAAGACACCTTTG GACAGAGAAAAGCAGAAATCCTACCACTTGACTTTGACTGCCTTGGACTTTGGAGCTCCACCCCTAAGCAGCACTGCACAGATACACGTTCTAGTGACTGATGCCAATGATAATGCTCCAGTGTTCAAGACGTATACAGGGTGAGCCTTTTCAGAAAACGTGTACCCGGGGACCACGGTGCTACAGGTGACTGCCACGGACCAGGATGAGGGTGTCAATGCCGAGATTACTTTCTCTTTTCAGTGAAGCTAGCCAGATCACCCAATTTGACCTGAACTCTAACACCGGGGAAATTACTGTTTTAAATACATTAGATTTTGAAGAAGTCAAAGAATATTCCATAGTTTGGAAAGCAAGGGACGGTGGAGGAATGATTGCGCAATGCACAGTGGAGGTAGAAGTCATAGATGAAAATGACAACGCCCCAGAAGTGATATTCCAGTCTTACCCAACCTAATTATGGAGGACGCCGAGCTGGGAACACATATTGCTTTGCTCAAAGTCCGTGACAAGGATTCCAGACACAATGGAGAAGTGACTTGTAATTTGAAGGTGATGTTCCATTTAAATATTAACCTCTTCAAGAAACACGTATAAATTAGTGACAGATGCTGTTCTAGACCGCGAGCAGAATCCAGAGTACAATATAACCGTTACGGCAACAGATCGGGCAAGCCTCCCTCTCCTCCAGTTCCAGCATCACCTGTCACATTGGTGATGTAAATGACAACGCTCCGGTTTTCTCACAGTCTTCTATATAGTCCACGTGGCCGAGAACAAACCCGCTGGAGCCTCTATTTCAAGTCAGGGCTTCTGATCCGGACTTGGGGCCCAACGGCCAAGTCTCTTACTGCATCATGGCCAGTGACCTGGAGCAGCGGGAGCTGTCA TCCTACGTGTCCATAAGCGCGGAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCGCC TTCGAACCTCACACTGCAGGCCCCGCGACCAGGGCTCGCCAGCGCTCAGCGCGAACGTGAGCCTGCGCGTGTAGTG GACGACCGBAACGACAATGCGCCACGGGTGCTGTACCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATG GTGCCGCACGCTGCAGAGCCTGGCTACTTGGTGACCAAGGTAGTGGCGGTGGACGCAGACTCAGGACACAACGCC TGGCTGTCTTACCAGTGCTGCAGGCTAGCGAGCCCCGGGCTCTTCAGCCTGGGGCTGCGCACGGGCGAAGTGCGC ACAGCGCGTGCCTTAGGCGACAGGGACGCCGTCCGCCAGCGCCTTCTGGTCGCCGTGCGTGACGGTGGACAGCCA CCACTCTCGGCCACTGCCACGTTGCACCTGGTCTTCGCCGACAGCTTGAGGAGGTGCTGCCGGATATCACTGAC CGCCCCGACCCCTCTGACCTCCAGGCTGAGCTGCAGTTTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGCTC TTCTCGTGGCCATGATTCTGGCCATTGCCTTGCGCCTGCGACGCTCCTCCAGCCCCGCTCCTGGAGCTGCTTC CAGCCTGGTCTCTGTGTTAAATCCGAATCCGTGGTTCCCCCAACTACAGCGAGGGGACTTTGCCTTATTCTTAC AATCTATGTGTTGCACATACAGGAAAGACGGAGTTTAATTTCCATAAATGTAGTGAGCAGTTGAGTTCAGGACAA GACATACTTTGCGGTGATTCTCTGGGGCCTTATTTCCACTTTGTAATTCCAGTGAATTGACTTCCCATCAGCAA GCCCGCCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGAC ACCGGCACCTGGCCCCAACACCAAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCT GCTGATGGGAGCTCCACCCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACC CTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGC AAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACAT GGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACCCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCA GAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCC CAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATC AACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTTGCCACACCCCGTTTAGTTACAG CTGAACTCCTCCATCTTCCAAATCAATCAGGCCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAG TTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTT GGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCC TTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGC TTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTT TTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGT TCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGCATGGACAAAGCTT

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FIGURE 1733

MSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSVVGNLATDLGFSVQELPTRKLRVSSEKPYF
TVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFELQISESAQPGT
RFILGSAHDADIGSNTLQNYQLSPSDHFSLINKEKSDGSKYPEMVLKTPLDREKQKSYHLTLTALDFGAPPLSST
AQIHVLVTDANDNAPVFSQDVYRVSLSENVYPGTTVLQVTATDQDEGVNAEITFSFSEASQITQFDLNSNTGEIT
VLNTLDFEEVKEYSIVLEARDGGGMIAQCTVEVEVIDENDNAPEVIFQSLPNLIMEDAELGTHIALLKVRDKDSR
HNGEVTCCKLEGDVPFKILTSSRNTYKLVTDAVLDRQNPEYNITVTATDRGKPPLSSSSSITLHIGDVNDNAPVF
SQSSYIVHVAENNPPGASISQVRASDPDLGPNGQVSYCIMASDLEQRELSSYVSISAESGVVFAQRAFDHEQLRA
FELTLQARDQGSPALSANVSLRVLVDDRNDNAPRVLYPALGPDGSALFDMVPHAAEPGYLVTKVVAVDADSGHNA
WLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAVRQRLLVAVRDGGQPPLSATATLHLVFADSLQEVLPDITD
RPDPSDLQAELOFYLVVALALISVFLVAMILAIALRLRRSSSPASWSCFQPGLCVKSESVPVPPNYSEGTLPSY
NLCVAHTGKTEFNFLKCSEQLSSGQDILCGDSSGALFPLCNSSSELTSHQQAPPNTDWRFSQAQRPGTSGSQNGDD
TGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAG
KRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1734A

ATGAAGATTCAGAAAAAGCTGACTGGCTGCAGCAGGCTGATGCTTCTGTGTCTTTCTCTGGAGCTGCTGTTGGAA
GCTGGGGCTGGGAATATTCACTACTCAGTGCCGGAAGAGACAGACAAAGGTTCTTCGTAGGCAACATCGCCAAG
GACCTAGGGCTGCAACCCCAGGAGCTGGCAGATGGCGGAGTCCGCATCGTCTCCAGAGGTAGGATGCCGCTTTTC
GCTCTGAATCCTAGAAGTGGCAGCTTGATCACC CGCGCAGGATAGACCGGGAGGAGCTCTGCGCTCAGAGCATG
CCGTGTCTCGTGAGTTTTAATATCCTTGTTGAGGATAAAATGAAGCTTTTTCTGTTGAAGTAGAAATAATTGAT
ATTAATGACAACACTCCCCAATTCCAGTTAGAGGAACTGGAGTTTAAAATGAATGAAATAACGACTCCAGGTACC
AGAGTCTCATTGCCTTTTGGGCAAGACCTTGATGTGGGTATGAACTCACTCCAGAGCTACCAACTCAGCTCTAAC
CCTCATTTCTCCCTGGATGTGCAACAGGGAGCCGATGGGCCTCAACATCCAGAGATGGTGCTGCAGAGTCCCTTA
GACAGAGAAGAAGAAGCTGTCCACCACCTCATCTCACAGCTTCTGATGGGGGTGAACCAGTCCGTTCAGGGACC
CTCAGAATTTACATTCAGGTGGTGGATGCAATGACAATCCTCCAGCATTTACTCAGGCACAATACCATATAAAT
GTCCCCGAAAAAGCTGCCGCTGGGTACTCAGCTGCTCATGGTAAATGCCACTGACCCTGATGAGGGAGCCAATGGG
GAAGTAACGTACTCCTTTCACAATGTAGACCACAGAGTGGCCCAATATTTTCGTTTAGATTCTTACACAGGAGAA
ATATCAAATAAAGAACCCTAGATTTTGAAGAATACAAAATGTATTCAATGGAAGTTCAAGCCCAGGATGGTGCG
GGGCTCATGGCTAAAGTTAAGGTACTGATCAAAGTTTTGGATGTAAATGATAATGCCCCAGAAGTGACCATCACC
TCTGTCAACCACTGCAGTTCAGAAAACCTTCTCCTGGGACCATAATTGCTCTTATCAGTGTGCATGACCAGGAC
TCAGGAGACAATGGCTACACCACATGTTTCATTCTCGAAATTTACCTTTAAATTGGAAGTTAGTTGATAAT
TATTACCGTTTAGTGACTGAAAGAACTGGACAGAGAAGTTATCTCTGGGTACAACATCACAATAACAGCAATA
GACCAAGGAAGTCCAGTCTATCTACTGAACTCACATTTCACTACTAGTGACAGATATCAATGACAAGTCCCCA
GTCTTCCATCAGGACTCCTACTCTGCCTACATTCCCGAAAACAACCCAGAGGAGCCTCCATCTTCTGTGAGG
GCCCACGACTTGGACAGCAATGAGAATGCACAAATCACTTACTCCCTAATAGAGGACACTATCCAGGGGGCAGCC
CTATCTGCCTACCTCTCCATCAACTCCGACACTGGGGTCTGTATGCGCTGCGATCCTTCGACTATGAGCAGTTC
CGGGACATGCAACTGAAAGTGATGGCGCGGGACAGTGGGGATCCGCCCTCAGCAGCAACGTGTCTCTCAGCCTA
TTCTGTCTGGACCAGAACGACAACGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGATGGTTCTACCGGCGTG
GAGCTGGCGCCCTCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCCTGGCTGTCTTACCGCTGTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAG
GTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGTCTCGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCGCTCTCCGCCACTGTCACGCTACCGTGGCGTGGCCGACAGGATCTCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCCAAACGATTCCGACCTCACTCTGTACCTGGTGGTGGCGGCGCGCGGTC
TCCTGCGTCTTCTGGCCTTCGTCATCGTGCTGCTGGCGCACAGGCTGCGGCGCTGGCACAAGTCAAGTCTGCTA
CAGGCTTCGGGAGGCGGCTTAGCGAGCATGCCCGTTTCGCACTTTGTGGGCGTGGACGGGGTTTCGGGCTTTCCTG
CAGACCTATTCCCACGAGGTCTCCCTCACTGCGGACTCGCGGAAGAGCCACCTGATTTTCCCCAGCCCACTAT
GCGGACACACTCATCAGCCAGGAGAGCTGTGAGAAAAAGGGTTTTCTATCAGCACCCCACTCTTACTTGAAGAC
AAAAAGGAACCATTTTCTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCGTACGGACCCCAAGTTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTT
CTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCTAACCCCAAGATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1734B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTCATAGACCTTCTTCTCCCACCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCCCCGTGTTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1735

MKIQKKLTGCSRLMLLCLSELELLEAGAGNIHYSVPEETDKGSFVGNI AKDLGLQPQELADGGVRIVSRGRMPLF
ALNPRSGSLITARRIDREELCAQSMPCLVSNILVEDKMKLFPVEVEIIDINDNTPQFQLEEELEFKMNEITTPGT
RVSLPFGQDL DVGMNSLQSYQLSSNP HFSLDVQQGADGPQHPEMVLQSP LDREEEAVHHLILTASDGGE PVRSGT
LRIYIQVVDANDNPPAFTQAQYHINVPENVPLGTQLLMVNATDPDEGANGEVTYSFHNVDHRVAQIFRLDSYTGE
ISNKEPLDFEYKMYSM EVQAQDGAGLMAKVVKLIKVL DVNDNAPEVTITSVTTAVPENFP PGTI IALISVHDQD
SGDNGYTTCFIPGNLPFKLEKLVDNYRLV TERTLDRELISGYNITITAITDQGTPALSTETHISLLVTDINDNSP
VFHQDSYSAYIPENNPRGASIFSVRAHDLD SNENAIQITYSLIEDTIQGAPLSAYLSINSDTGVLYALRSFDYEQF
RDMQLKVMARDSGDPPLSSNVSLSLFLLDQNDNAPEILYPALPTDGSTGVELAPLSAEPGYLVTKVVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADRISDILADL
GSLEPSAKPNDSDLTLYLVAAAAVSCVFLAFVIVLLAHLRLRRWHKSRLLQASGGGLASMPGSHFVGVDGVRAFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKGFLSAPQSLLEDKKEPFSQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPFQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1736A

ATGGCCGCTCAAAGGAATCGCTCAAAGGAATCAAAGGATTGCAGCGGGCTGGTCTGCTCTGCCTTTTCTTCGGG
ATTCCATGGGAGGCTGGAGCCCGGCAGATCTCCTACTCAATTCTGAGGAATTAGAGAAAGGCTCTTTCGTGGGC
AACATCTCCAAGGACTTGGGTCTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATAGTCTCCAGAGGTAGG
ACGCAGCTTTTCTCTCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGATAGACCGGGAGGAGCTCTGC
GCTCAGAGCGCGCGGTGCGTGGTGAGTTTTAATATCCTTGTGGAAGACAGGGTGAACTTTTTGGGATAGAAATA
GAAGTAACTGATATCAATGACAATGCTCCAAAATTCCAAGCAGAAAATCTAGACGTAAAAATTAATGAAAATGTC
GCTGCGGGAATGCGTTTTCTCTCCCGGAAGCTATTGATCCGGATGTGGGCGTGAACCTCCCTGCAGAGCTATCAG
CTCAGCCCCAATAAGCACTTCTCCCTAAGAGTTCAGAGCCGTGCCAATGGCGTCAAGTACCCGGAGCTGGTACTG
GAGCACTCCCTAGATCGCGAGGAAGAGGCCATTACACCTGGTCTCACCCTCCGACGGGGGTGACCCTCTC
CGATCTGGCACTGTCTTGTGCTGCTGCTCTTCGATGCAAATGACAACGCGCCGCTCTTACCTTGCCAGAA
TACCGAGTGAGTGTCTCTGAGAATTTGCCTGTGGGCACTCAGCTGCTGACAGTCACAGCCACCGACAGGGACGAA
GGTGCCAATGGAGAAGTGACATATTCATTCCGAAAATTACCTGACACGCAATTGTTGAAGTTCCAACATAACAAA
TATACTGGAGAAAATAAAATATCAGAAAATCTAGATTATGAAGAAACCGGTTTCTATGAAATAGAAATACAAGCA
GAAGATGGAGGAGCATATCTTGCAACTGCAAAAGTGTGATTACAGTAGAAGATGTAAATGACAACAGTCCAGAG
CTGACCATCACGTCTCTATTTAGTCCAGTGACTGAAGATTCACCTCTGGGAACAGTCGTAGCCCTTTTAAATGTG
CATGATTTAGACTCTGAGCAGAATGGACAGGTAACCTGTTCCATTTTGGCGTATCTACCATTTAAATTAGAAAAG
TCCATTGACAGTTATTACAGATTGGTGATACACAGAGCCCTTGACAGGGAACAGGTATCCTCTTACAATATCACA
GTGACAGCCACAGATGGGGGAAGTCTCTCTATCAACGGAAGCTCACTTTATGCTACAAGTGGCAGATATCAAT
GACAACCCACCTACCTTCTCTCAAGTCTCTACTTTACCTATATCCAGAGAACAACGCCAGGGGTGCCTCCATC
TTCTCAGTGACAGCGCTGGACCCGGACAGCAAAGAGAATGCCAGATTATTTACTCCCTGGCTGAAGACACCATC
CAGGGGTACCTCTGTCTCATAACATCACTCACTCAGACACTGGCGTCTCTGTATGCACTCAGATCCTTCGAC
TATGAGCAGTTTCATGAGCTACAGATGCAGGTGACAGCCAGCGACAGCGGGGATCCTCCACTCAGCAGCAACGTG
TCGTTGAGCCTGTTTGTGCTGGACAGAACGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCACAGACGGT
TCCACAGGCGTGGAGCTGGCGCCCCGCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGA
GACTCCGGCCAGAACGCCTGGCTGTCTTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCGCGGTGGGGGAG
CACAGGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAAAGCCTCGTAGTGGCCGTC
CAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTCACGCTCACCGTGGCCGTGGCCGACAGCATCCCCAAGTC
CTGGCGGACCTCGGCAGCTTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGTGGTAGCG
GTGGCCGCGGTCTCTGCGTCTTCTGGCCTTCGTATCGTGTGCTGGCGCACAGGCTGCGGCGCTGGCACAAG
TCACGCCTGCTGCAGGCTTCAGGAGGCGGCTTGACAGGTGTGTCCGGCTCGCACTTTGTGGGCGTGGACGGGGTT
CGGGCTTTCTCTGACAGCTATTCCCACGAGGTCTCTCTCACCGCGGACTCGCGAAAGAGTCACTGATCTTCCCC
CAGCCCAATTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAACGATCCTTTGTCTTTGTAGATGAT
TCGAAGTTTCTATAGAGGATACCCCATTTGGTTCCACAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCC
CAGAGACCCGGCACAGCGGCTCCCCAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAG
ATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGC
ACCATGGGATTGAGCGCCCCGTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTAC
ATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGC
AACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCC
CAACCAGCCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGG
CCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGA
ATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTA
GACACCAAGAACCATTGGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCCAT
CCATCCCATGCCTCCCTCTCCCCACCCCACTCCAACAGTTCCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAA
GTACCAAGTAACCTACAAGCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGAT
TCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAG
TTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGATTAGGGAGGGCATTTTGTACCAAGCC
TCTTCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTT
CCCCACCTCCTCTCAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGA

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FIGURE 1736B

AGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCT
GTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTCCCACT
ACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAG
TCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCCTCTGTGGGTGCTGGGTAC
TCCAGAGGTGCCACTGGTGGAAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCC
CTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCA
ACAGGGCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGC
CCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCTCCTTGTCATAGACCTTC
TTCTCCCACCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTAC
AGTAGTGTAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGA
TGGCGGGTGGGCAGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCCGCGGCGGCCCGTGTGTGT
TTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTTCTCCTATAAGCGCTTCTCTTCGCATA
GTCACGTAGCTCCCACCCACCCCTCTTCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTT
TCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1737

MAAQRNRSKESKDCSGLVLLCLFFGIPWEAGARQISYSIPEELEKGSFVGNISKDLGLAPRELAERGVRIVSRGR
TQLFSLNPRSGSLITAGRIDREELCAQSARCVVSFNILVEDRVKLFIEIEVTDINDNAPKFQAEENLDVKINENV
AAGMRFPPLPEAIDPDVGVNSLQSYQLSPNKHFSLRVQSRANGVKYPELVLEHSLDREEEAIIHHLVLTASDGGDPL
RSGTVLVSVTVFDANDNAPVFTLPEYRVSPENLPVGTQLLTVTATDRDEGANGEVTYSFRKLDPDTQLLKQFQLNK
YTGEIKISENLDYEETGFYEIEIQAEDGGAYLATAKVLITVEDVNDNSPELTITSLFSPVTEDSPLGTVVALLNV
HDLDEQNGQVTCISILAYLPFKLEKSIDSYYRLVIHRALEDREQVSSYNITVTATDGGSPPLSTEAHFMLQVADIN
DNPPTFSQVSYFTYIPENNARGASIFSVTALDPDSKENAQIIYSLAEDTIQGVPLSSYISINSDTGVLYALRSFD
YEQFHLMQVMTASDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDR
DSGQNAWLSYRLKASEPGLFAVGEHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTTLTVAVADSIPQV
LADLGSFESPANSETSDLTLYLVVAVAAVSCVFLAFVIVLLAHLRLRRWHKSRLQLQASGGGLTGVSGSHFVGVDGV
RAFLQYTSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKNDPLSLDDSKFPIEDTLPVPQAPPNTDWRFSQA
QRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPDYRQNVY
IPGSNATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1738A

AGAATGGGCTCTAGGCGCCGCTGCTACCAATCAGGGAATGGGAAGCTGCGCGCCATTGAGTCCCTCCCTCCCC
GCCTCTACCACACAAAGCGGAATGAGATGGATACTCACAGATCCTGACACTGGAGACTTAGAAGTATTTTCCTTC
GCTTTCTGATATATTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTACAACCAACCAGCTC
GAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGCGGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTG
CTGCTGCTGTGCATTTTCCTGGGGACGCTGCGGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAG
ACCGAAAAGGGCTCCTTCGTGGGCAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGA
GTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGC
AGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCTCTGTTTTTAAATATGGAACCTCTCGTGGAAGACACC
TTGAAGATTTACGGAGTGGAGGTGGAAATAATAGATATTAATGATAACGCCCCAGCTTCAGGAGGACGAAGTG
GAGATAAAAGTCAGTGAGCACGCAATTCCTGGGGCGCGATTGCTCTTCCTAATGCTAGGGATCCAGATGTGGGC
GTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCCTTGCAACTGCGGGGCAGAACGGATGGG
GCCAAGAATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCCTCACA
GCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCCATTCGTGTGGTGGTCTCGATGTAAATGATCAC
ATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTTCCAGAAAACATCAGCTCCGGAACCTCGGGTGCTGATG
GTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGGAAGTAATGTATTTCATTTGGAACATGGAAGCAAGGCT
TCTGAAATATTCCAATTGGATTACAAACTGGAGAAAGTTCAAGTACGGGGTCTCTGGATTTTGAAAATATAGA
TTCTATGAGATGGAATTCAGGCCAAGATGGTGGAGGTCTCTTTACCACCACGACGATGTTGATCACTGTTGTG
GATGTGAATGATAACGCTCCAGAAATAACTATCACCTCTCTATTAATTCAATTCTGGAAACTCTCCTCCAGGT
ACAGTGATTGCTCTTCTAAATGTGCAAGATCAAGATTCTGGAGAAAATGGTCAAGTCTCCTGTTTTATTCTAAC
CACCTGCCTTTTAAATTAGAAAAGACTTATGGAAATTATTACAAATTGATAACAAGCAGAGTGCTGGACAGGGAG
TTGGTCCAGAGCTACAATATAACGTTGACAGCCACAGACCAGGGAAGCCCGCCTTTGTCTGCAGAACTCATGTC
TGGCTGAATGTGGCAGATGACAACGATAACCCCTCCCGTTTTCTCACTCCTCTTACTCTGCCTACATTCCCGAA
AACAACCCCAAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCGACAGCAAACAGAATGCCCTGGTCACT
TACTCTCTGACGGATGACACTGTCCAGGGGTGCCTCTGTCTCTATGTCTCTATTAACTCCAACACTGGTGT
CTCTATGCCCTACAATCCTTCGACTATGAGCAGTTTCGAGACTTAGAACTGAGAGTGATAGCACGTGACAGCGGG
GACCCGCCCTCAGCAGCAACGTGTGCTGAGCCTGTTCTGTCTGGACCAGAACGACAATGCGCCCGAGATCCTG
TACCCTGCCCTCCCCACAGACGGCTCCACTGGCGTGAGCTGGCGCCCCGCTCTGCGGAACCTGGCTACCTGGTG
ACCAAGGTGGTTGCGGTGGACAAAGATTACGGCCAGAACGCCTGGCTGTCTATCGCCTGCTTAAGGCCAGCGAG
CCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGGTGCGTACAGCGCGGGCACTGCTGGACAGAGACGCGCTC
AAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGCCAGCCCCCTCTCTCGGCCACCGTCACGCTACCGTGCT
GTGGCCGACAGCATCCCCGAAGTCTTGCGGACCTCGGCAGCCTCGAGTCTCTGGCTAACTCTGAAACCTCAGAC
CTCTCGCTGTACTTGGTGGTGGCGGTGGCCGAGTCTCTGCACTCTCTGGTCTTTGTATCGTGCTGCTGGCA
CTCAGGCTGTGGCGCTGGCATAAGTCACGCCTGCTGCAGGCTTCTGAAGGCGGGTTGGCAGGTATGCCACGTCA
CATTTTGTAGGCGTGACGGGGTACAGGCTTTCTGCAAACTATTCCCACGAGGTCTCTCTCATTGCGGACTCG
CAGAAGAGTCACCTGATTTTCCCCAGCCCAACTATGGGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAGC
GAGCCACTCTTGATAGCTGAAGACTCAGCTATCATTTTAGGCAAAATGTGACCCGACAAGTAATCAGCAAGCCCCG
CCCAACACGGACTGGCGTTTTCTCTCAGGCCAGAGACCCGGCACAGCGGCTCCCAAAATGGCGATGACACCGGC
ACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGAT
GGGAGCTCCACCCTGGGAGGGGTGCGGACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCTGCAG
CACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGG
GATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCTGGGCAAGAAGGAGAAGAAGTAACATGGAGGC
CAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCTTACCTGCACCCAGGCCTCAGAGTTT
CAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCCACTCA
GCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGC
TGTACCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCACACCCCGTTTAGTTACAGCTGAAC
TCCTCCATCTTCCAAATCAATCAGGCCCATCCATGCCCTCCCTCCTCCCCACCCACTCCAACAGTTTCTC
TTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGG
GCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTACC

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FIGURE 1738B

TCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTG
GATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATT
GTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAG
ACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACA
TCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATA
AACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCCAGGCAGCCAGCTTTGGGCTGAGCTAA
CAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAG
GTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGA
AGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAG
AAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCCTCCTGAAGCCTCAGTCCCTCACCTTGCCAG
GTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGT
TCCCCAGTGCCCTCCTTGTCATAGACCTTCTTCTCCACCCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGG
GCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCC
AGTAGTGTAGTGCGGTGTGCTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCC
TTGATCTGCCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGTACTG
ACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCCTGTGTCTCAGCAAGT
TTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1739

MANRLQRGDRSRLLLLLCIFLGLTRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSRGKTQL
FAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGVEVEIIDINDNAPSFQEDEVEIKVSEHAIPG
ARFALPNARDEPDVGVNSLQSYQLSPNNYFSLQLRGRDTGAKNPVLVLEGLDREKEAAHLLLLLTALDGGDPPIRKG
AVPIRVVVLVDVNDHIPMFTQSVYRVSVPENISSGTRVLMVNATDPDEGINGEVMYSFRNMESKASEIFQLDSQTG
EVQVRGSLDFEKYRFYEMEIQQGDGGGLFTTTTMLITVVDVNDNAPEITITSSINSILENSPPGTIVALLNVQDQ
DSGENGQVSCFIPNHLFPKLEKTYGNYYKLITSRVLDRELVSYNITLTATDQGSPPLSAETHVWLVNADDNDNP
PVFPHSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTYSLTDDTVQGVPLSSYVSINSNTGVLYALQSFDEYEQ
FRDLELRVIARDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSG
QNAWLSYRLKASEPGLFAVGEHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLAD
LGSLESLANSETSDLSLYLVVAVAAVSCIFLVFVIVLLALRLWRWHKSRLQASEGGLAGMPTSHFVGVDGVQAF
LQYTSHEVSLIADSQKSHLIFPQPNYGDTLISQESCEKSEPLLIAEDSAIILGKCDPTSNQQAPPNTDWRFSQAQ
RPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYI
PGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1740A

AAGGGGGTGGAGGTTTGGCCCTAAAGCTTCAGGACACCAAAGAAATTCAGTCGAACAGCCCACCAGTTCTCTCCA
TAGGGACCTGGGTCCCGTGAATGCTGGTTATCTCACACCCTGAGGAATAAAGATTGGAATCCGCACTGGATGCTG
GAAGTTGACTCGGAGAAAATTGCGACAGGAGGGAAATGGCGGCTCTGCAAAAGTTGCCACACTGCAGAAAGCTGG
TCCTGCTGTGCTTCCTTTTGGCGACCCTGTGGGAGGCCAGGGCCGGGCAGATTGCTATTCTGTGCGGGAAGAGA
TCGACAGAGGCTCCTTCGTAGGCAACATCGCCAAGGACTTGGGTTTGGAGCCCCTGGCACTGGCAGAGCAGGGAG
TCCGCATCGTCTCCAGAGGTAGGTCCCAGCTCTTTGCTCTGAACCCGCGAAGCGGCAGCTTGGTCACTGCGAACA
GGATAGACCGGGGAGGAGCTCTGCGCTCAGAGCGCACCCCTGTCTGTTGAATTTAACATTCTGCTGGAGGATAAAT
TGACTATTTATTTCAGTAGAGGTGGAAATAACAGATATTAACGATAATGCCCTCGCTTTGGAGTAGAGGAACTGG
AGCTAAAAATCAGTGAAACCACTACGCCAGGATTCCGGATTCTCTTAAGAATGCGCATGATGCAGACGTAGGTG
AGAACGCCCTTCAGAAGTACGCACTCAACCCAAATGACCATTCTCCCTGGACGTGCGAAGGGGAGCTGATGGGA
ACAAGTACCCAGAAGTGGTGCTGGAGCGCTCTCTGGACCGCGAGGAAGAGGCTGTTCAACACCTCGTTCTCGTGG
CTTCTGATGGGGGTGACCCAGTGCTATCTGGCACCTCCCGCATCTGCGTGAAGGTCTGGATGCGAACGACAATG
CGCCTGTTTTTACACAGCCCGAGTACCGCATAAGCATTCCGGAGAATACGCTCGTGGGCACCCGGATACTCACGG
TGACCGCCACTGACGCAGATGAGGGCTACTACGCTCAAGTGGTATATTTTCTAGAGAAAAGCCCTGGAGAAACCT
CAGAGGTATTTGAGCTTAAGTCAACATCTGGGAACTGACAATCATAAAAGATCTAGATTATGAGGATGCTACAT
TCCATGAAATTGATATTGAAGCTCAGGATGGTCCGGGCTTCTAACCAGAGCGAAGGTTATCGTCACGGTCTCTGG
ATGTGAATGACAATGCCCCAGAATTTTACATGACATCTGCTACTAGCTCAGTTTCTGAAGACTCTCTTCCAGGAA
CCATAATTGGGCTTTTAAATGTACATGATAGAGACTCTGGGCAGAACGCATTACACACCTGTTCACTCCCCGAGG
ATCTTCCTTTTAAAGTTAGAAAAGTCAGTAGACAATTACTACCGACTGGTTACAACAGAGCCCTTGACAGGGAAC
AGTTTTCTTTTACAACATCACTCTAACCGCTAAAGATGGAGGGAACCCCTCCCTGTCCACGGATGCTCACATTT
TGCTCCAGGTGGCAGACATCAACGACAACGCACCCGCTTCTCCCGCACATCCTACTCCACCTACATTCCCGAAA
ACAACCCAGAGGAGCCTCTGTCTTCTCAGTGACGGCCCATGACCCGACAGCAACGACAATGCTCATGTAACCTT
ACTCTTTTCGCGGAGGACACTGTTCAAGGGGGCACCCCTATCCTCTTACATCTCTATCAACTCCGACACTGGAGTAC
TCTATGCACTGCGCTCCTTTGATTATGAGCAGTTGCGAGACTTGCAAGTGTGGGTGATAGCGCGGGACAGCGGGA
ACCCTCCACTCAGTAGCAATGTATCATTAAAGCCTGTTTCGTGCTGGACCAGAACGACAACGCGCCCGAGATCCTGT
ACCCTGCCTTCCCCACAGACGGTTCCTACTGGCGTGGAGCTGGCGCCCCGCTCCGCAGAGCCCGGCTACCTGGTGA
CCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAGAAGCCTGGCTGTCTTACCACCTGCTCAAGGCCAGCGAGC
CGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCA
AGCAGAGCCTCGTGGTGGCCATCCAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCG
TGGCCGACAGGATCCCCGACATCCTGGCCGACCTGGGCAGCCTCGAGCCCTCCGCCATAACCAACGATTTCGGACC
TCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTCTCCTGCGTCTTCTGGCCTTCGTCATCGTGTTGCTGGCGC
ACAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTGCAGGCTTCAGGAGGCAGCTTGACAGGCATGCAGAGCTCGC
ACTTTGTGGGCGTGGACGGGGTTCGGGCTTTCTGACAGCCTATTCCCACGAGGTCTCCCTCACTGCGGACTCGC
GGAAGAGCCACCTGATTTTCCCCAGCCCAACTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAAGG
ATTTTTTATCAGCGCCTCAATCTCTACTCGAAGAAGAAAGAGAAGAAACGTTTTTCTCAGCAAGCCCCGCCAACA
CGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGC
CCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCT
CCACCCTGGGAGGGGGTGGCCGACCATGGGATTGAGCGCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGC
CCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCA
AGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCA
AGAGCCACAGGGCGGCTCTCCCCAACAGCCCAGCTTCTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCT
AACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTA
CCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCC
ATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGGCCACACCCCGTTTAGTTACAGCTGAACCTCTCCA
TCTTCCAAATCAATCAGGCCCATCCATCCCATGCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCG
AGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCAT
GACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCC
AGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGGATTTAG

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FIGURE 1740B

GGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGAC
GTTTCCACTGCATGCCTTGA CT TCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTAT
GGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTT
ATCAAGGCCCTTGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAAT
AACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACC
AATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAG
GGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGG
GCCAGCCAGGCCATTCTTAGTCCCTGGGTGTTGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCT
CAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGT
TTCCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAG
TGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCA
GAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTG
TAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCT
GCCCGCGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGCTACTGACTTCTC
CTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCACCCCACCTCTTCTGTGTCTCACGCAAGTTTTATAC
TCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1741

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNIKDLGLEPLALAEQGVRIVSRRGSQLF
ALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLTIIYSVEVEITDINDNAPRFGVEEELKISETTTPGF
RIPLKNAHDADVGENALQKYALNPNDHFSLDVRRGADGNKYPELVLESLDREEEAVHHLVLVASDGGDPVLSGT
SRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVVFLEKSPGETSEVFELKSTSGE
LTIKDLDYEDATFHEIDIEAQDGPGLLTRAKVIVTVLDVNDNAPEFYMTSATSSVSEDSLPGTIIIGLFNVHDRD
SGQNAFTTCSLPEDLPFKLEKSVDNYYRLVTTRALDREQFSFYINITLTAKDGGNPSLSTDAHILLQVADINDNAP
AFSRTSYSTYIPENNPRGASVFSVTAHDPDSNDNAHVITYSFAEDTVQGAPLSSYISINSDTGVLYALRSFDYEQ
RDLQVWVIARDSGNPPLSSNVLSLFLVDQNDNAPEILYPAFPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYHLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAIQDHGQPPLSATVTTLTVAVADRIPDILADL
GSLEPSAIPNDSDLTLYLVVAVAAVSCVFLAFVIVLLAHLRRWHKSRLQASGGSLTGMQSSHFGVDGVRAFL
QYTSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKDFLSAPQSLLEEEREETFSQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1742A

ATGACCAATTGCCTGAGTTTCCGAAATGGCAGAGGACTGGCCCTGCTGTGCGCGCTCCTGGGGACGCTGTGCGAA
ACAGGATCCGGTCAGATCCGCTACTCGGTGTCTGAGGAGCTAGATAAAGGTTCTTTCGTGGGCAACATCGCTAAC
GACCTGGGGCTAGAGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTC
TCTCTGAATCCGCAAAGCGGCAGCTTGGTCACCGCGGAGAGGATAGACCGGGAGGAGCTCTGCGCTCAGATCCCG
CTGTGTCTGGTAAAAATTAACATTCTGGTTGAGGATAAATTGAAAAATTTTGAAGTAGAAATAGAAATTAAAGAT
ATTAATGATAATGCTCCTAATTTCCCAACAGAGGAATTGGAAATAAAAAATTGGTGAACATAACGGTTCTTGGAAACC
CGATTTCCAATTAAAACTGCTTTTGAACCCAGATGTAGGCATTAACCTCCCTGCAGAACTACAAGCTTAGCCCCAAT
GACTACTTCTCTCTGGCTGTGAATAGCGTCTCTGAGGGGGCCAAAGTATCCAGAGCTGGTGTGAGAGCGGGCCCTG
GACCGTGAGAAAAAAGAAATTCACCAGCTTGTCTGGTTGCCCTCTGATGGTGGCGACCCTGTCCACTCTGGCAAC
TTGCACATCCAAGTGATAGTCTGGATGCAAATGACAACCCACCAATGTTTACTCAGCCTGAGTACCGTGTGAGT
GTTTGGGAGAACGTGCCTGTGGGTACCCGGCTGCTCACGGTGAATGCCACTGACCCTGACGAGGGATTCAATGCT
CAAGTGTCTTATATTCTAGATAAAATGCCTGGGAAAAATCGCTGAGATTTTCCATCTTAACCTCAGTGAGTGGAGAA
GTATCAATATTAAAAAGTCTAGATTATGAGGATGCCATGTTCTATGAAATTAAAAATTGAAGCACAGGATGGACCA
GGTCTTCTTTCAAGAGCCAAGATTCTAGTCACGGTTCTGGATGTGAATGACAATGCTCCAGAAATTACAATCACG
TCTCTCACAAGCTCAGTCCCAGAAGAGGGCACCGTTGGAAGAGAAATTGCTCTTATCGACGTGCATGACCGAGAT
TCTGGGCAGAAATGGGCAGGTTGAAGTTTTTGTCTGGGAAATCTGCCATTTAAGTTAGAAAAATCAATAGATCAA
TATTACCGCTTAGTGACGGCCACATCCCTGGACCGCGAACAATAATCAGAATATAACATTAGTCTGAGAGCCTCA
GATGGGGGAAGCCCGCCACTGTCCACAGAACTCACATCACCTGCATGTGATTGACATCAATGACAACCCACCC
ACCTTCCCTCATTTATCTACTCCGCCTACATTCCAGAAAACAACCCAGAGGAGCCTCCATCTTCTCAGTGACA
GCCCAGGACCCAGATAGCAACAACAACGCCCCGATCACTTATGCATTGACCGAGGACACTCTCCAGGGGGCGCCC
CTGTCTCTCTTCGTCTCTATCAACTCCAACACTGGCGTCTATACGCGCTGAGATCCTTCGACTACGAGCAATTT
AGAGACTTAAAGCTACTGGTGACAGCCAGCGACAGCGGGAACCTCCACTCAGCAGCAACGTGTGCTGAACCTG
TTCGTGCTGGACCAGAACGACAACGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTG
GAGCTGGCGCCTCGCTCCGCAGAGCCCGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCCTGGCTGTCTTACCGCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAG
GTGCGCACGGGCGGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCGTGGCCGACAGGATCCCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCCAACGATTTCGGACCTCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTC
TCTTGGCTCTTCTGGCCTTCGTATCTGTGCTGCTGGCGCTCAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTG
CAGGCTTCGGGAGGCGGCTTGGCGAGTACGCCCGGCTCGCACTTTGTGGGCGCGGACGGGGTTCCGGGCTTTCCTG
CAGACCTATTCCCACGAGGTCTCCCTCACTGCGGACTCGCGGAAGAGCCACCTGATTTTCCCCCAGCCCAACTAT
GCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAATG
AAAGGAGATTCCAACCTACTTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCCACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCTTGGGAAACAGAAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTGTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATCACCATCCCCATGGTACTGATGCTTGTGATTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCCAACGC
CTGGGGACAGTCTTCTGTTTGTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCT
CTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1742B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTTCCCACTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGC
AGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCGCCGTTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1743

MTNCLSFRNGRGLALLCALLGTLCTGSGQIRYSVSEELDKGSFVGNIANDLGLEPRELAERGVRIVSRGRTQLF
SLNPQSGSLVTAERIDREELCAQIPLCLVKINILVEDKLIKIFEVEIEIKDINDNAPNFPTEELEIKIGELTVPGT
RFPIKTAFDPDVGINSLQNYKLSPNDYFSLAVNSVSEGAKYPELVLERALDREKKEIHQLVLVASDGGDPVHSGN
LHIQVIVLDANDNPPMFTQPEYRVSVWENVPVGTIRLLTVNATDPDEGFNAQVSYILDKMPGKIAEIFHLNSVSGE
VSILKSLDYEDAMFYEIKIEAQDGPGLLSRAKILVTVLDVNDNAPEITITSLTSSVPEEGTVGREIALIDVHNRD
SGQNGQVEVFVLGNLPFKLEKSIDQYYRLVTATSLDREQISEYNISLRASDGGSPPLSTETHITLHVIDINDNPP
TFPHLSYSAYIPENNPRGASIFSVTAQDPDSNNNARITYALTEDTLQGAPLSSFSVSINSNTGVLYALRSFDYEQF
RDLKLLVTASDSGNPPLSSNVSLNLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTTLTVAVADRIPDILADL
GSLEPSAKPNDSDLTLYLVVAVAAVSCVFLAFVIVLLALRLRRWHKSRLQASGGGLASTPGSHFVGADGVRAFL
QTYSHVSLTADSRKSHLIFPQPNYADTLISQESCEKSEPLITQDLLEMKGDSNLLQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1744A

ATGGCGGCGCCTCCTGCTCGCCAGACCACACCCGGCTGCTCCAGATCTGCCTTCTCCTGGGGGTTCTGGTGGA
ATCAGGGCCGAACAGATTCTCTACTCGGTGTTTGGAGAGCAGGAAGAAGGCTCAGTGGTGGGCAACATCGCCAAG
GACCTGGGGTTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTC
GCCCTGAACCCGCGCAGCGGCACCTTGGTCACCGCGGGTAGGATAGACAGGGAGGAGCTCTGCGACAGATCTCCA
AACTGTGTGACAAACCTGGAGATTCTTCTAGAAGATACAGTGAAGATTTTGCGGGTAGAGGTGGAAATAATCGAT
GTTAATGATAACCCACCCAGTTTTGGGACAGAACAGAGGGAAATAAAAGTTGCTGAAAATGAAAATCCTGGGGCA
AGATTTCTCTTCTGAAGCTTTTGATCCGGATGTAGGTGTAAACTCCCTGCAGGGTTACCAGCTCAACTCAAAC
GGTTACTTTTCCCTGGACGTGCAAAGTGGGGCCGATGGGATTAAAGTACCCAGAGCTGGTGCTGGAACGCGCTCTA
GATCGCGAGGAAGAGGCGGTTACCACCTCGTTCTCACGGCCTTCGATGGAGGTGACCCGGTTTCGCTCTGGCACT
GCCAGGATTCTCATAATACTTGTGGATACCAACGATAATGCTCCCGTGTTCACTCAGCCCCAGTACCACGTAAGT
GTTTCGTGAGAACGTTCTGTAGGCACTCGGCTACTCACCGTAAAGCCACTGATCCAGATGAAGGAGCCAATGGA
GACGTGACGTATTCTTTCCGGAAAGTAAGAGACAAAATATCACAGCTATTTCAAGTTGAATTCTCTGAGTGGGGAT
ATAACAATATTGGGGGGTCTAGATTATGAGGACTCTGGATTCTATGACATAGATGTAGAAGCCCATGATGGGCCCT
GGTCTCCGAGCTAGAAGCAAGGTACTGGTGACAGTTCTGGATGAAAATGACAACGCACCAGAAGTCACAGTTACA
TCTCTCACCAGCTCAGTCCAGGAATCTTCTTCCCCGGGTACAGTAATTGCACTTTTCAACGTGCATGACAGTGAC
TCAGGAGGAAATGGCCTAGTCACATGTTCTATTCCAGATAATCTGCCATTACACTTGAAAAGACCTATGGAAAT
TATTATCGGTTGTTGACACACAGAACACTGGACAGGGAAGAAGTCTCAGAATATAACATCACTGTAAGTGGCACT
GACCAGGGAACCTCCTCACTGTCTACAGAACTCATATTTCACTGCAAGTGATGGACATCAATGACAACCCACCC
ACTTTCCTCATGCTTCTACTCTGCTTACATTCTGAAAACAACCCAGAGGAGCCTCCATCTTATCTATGACT
GCTCAAGACCCTGACAGTGGTGACAATGCCCCGAATCACTTACTCCCTGGCCGAAGACACCTTCCAGGGTGACCT
CTGTCTCTATGTCTCCATCAACTCCAATACAGGGATCCTATATGCTCTTTGCTCCTTCGACTATGAGCAGTTT
AGAGACCTGCAGCTGCTGATGACAGCCAGTGACAGTGGAGACCCTCCACTCAGCAGCAATGTGTCACTGAGCCTC
TTTGTGCTGGACCAGAACGACAATGTCCCTGAGATCCTGTACCCACCTTCCCTACTGATGGCTCCACTGGTGTG
GAGCTGGCACCCCGCTCCGCAGATTCCGGCTACCTGGTGACCAAAGTGGTGGCAGTGGACAGAGACTCAGGTCAG
AATGCCTGGCTGTCTACAGCCTACTCAAGTCCAGCGAGCCGGGACTATTTGCAGTGGGGCTGCACACAGGCGAG
GTGCGCACCGCACGGGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGGCTTGTAGTGGTTCGTCAGGACCATGGC
CAGCCCCCTCTCTCGGCCACCGTCACACTCACTGTGGCTGTGGCCGACAGCATCCCAGATGTCTGGCTGACTTG
GGCAGCCTCAAGCCTTCAGCAGACCCAGACGACTCGGGCCTCACACTCTATCTCGTGGTGGCAGTGGCCGCTGTC
TCCTGCGTCTTCTGGCTTTTGTACGGTGCTGCTAGCACTCAAGCTGAGACGCTGGCACAAGTCACGCCTGCTT
CACGCTGAAGGCAGCAGGTTGGCAGGTGTGCTGCTCGCACTTTGTGGGCGTGACGGGGTTTCGGGCTTTCTCTG
CAGACCTATTCCCACGAGGTCTCCCTCACCGCGGACTCGCGGAAGAGTCACCTGATCTTCTCCCAACCCAGCTAT
GCAGACACGCTCATCAGCCGGGAGAGTTGTGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAACA
AAAGGAGACCCTAATCTTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCCAACACCAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCGTACGGACCCAGTTACCCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTT
CTCCTTACCTGCACCCAGGCCCTCAGAGTTTACAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCC
CTCCTCCCCACCCACTCCAACAGTTCTCTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCCCTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCT
CAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1744B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAA
TAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1745

MAAPPARPDHTRLLQICLLLGVLVEIRAEQILYSVFEEQEEGSVVGNIAKDLGLAPRELAERGVRIVSRGRTQLF
ALNPRSGTLVTAGRIDREELCDRSPNCVTNLEILLED TVKILRVEVEIIDVNDNPPSFGTEQREIKVAENENPGA
RFPLPEAFDPDVGVNLSLQGYQLNSNGYFSLDVQSGADGIKYPELVLERALDREEEAVHHLVLTAFDGGDPVRS
GTARILIIILVD TNDNAPVFTQPEYHVS VRENVPVGTRLLTVKATDPDEGANGDVTYSFRKVRDKISQLFQLNSLSGD
ITILGGLDYEDSGFYDIDVEAHDGPGLRARSKVLVTVL DENDNAPEVTVTSLTSSVQESSSPGTVIALFNVHDS
SGGNGLVTC SIPDNL PFTLEKTYGNYRLLTHRTL DREEVSEYNITVTATDQGT PPLSTETHISLQVMDINDNPP
TFPHASYSAYIPENNPRGASILSMTAQDPD SGDNARITYSLAEDTFQGAPLSSYVSINSNTGILYALCSFDYEQF
RDLQLLMTASDSGDPPLSSNVSLSLFVLDQNDNVPEILYPTFPTD GSTGVELAPRSADSGYLVTKVVAVDRDSGQ
NAWLSYSLLKSSEPGLFAVGLHTGEVRTARALLDRDALKQRLVVVVQDHGQPPLSATVTLTVAVADSIPDVLADL
GSLKPSADPDDSGLTLYLVVAVAAVSCVFLAFVTVLLALKLRRWHKSRLHAEGSRLAGVPASHFVGVDGVRAFL
QTYSHEVSLTADSRKSHLIFSQPSYADTLISRESCEKSEPLLITQDLLET KGDPNLQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1746A

ATGGCGAGTCCACCTAGGGGCTGGGGCTGCGGAGAGCTGCTGCTGCCCTTCATGCTCCTGGGGACGCTGTGCGAG
CCAGGATCCGGGCAGATCCGCTACTCGATGCCGGAGGAGCTGGACAAAGGCTCCTTCGTCGGCAACATAGCCAAG
GACCTTGGGCTGGAGCCCCAGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTT
GCCCTGAACCCGCGAAGCGGCAGCTTGGTCACCGCGGGCAGGATAGACCGGGAGGAGCTCTGCGCTCAGAGCCCA
CTGTGTGTGGTGAACTTTAAACATCTTGGTTGAGAACAAAATGAAAATTTATGGAGTAGAAGTAGAAATAATCGAT
ATTAATGATAACTTCCCCGCTTTCGGGATGAAGAGTTAAAGTAAAGTTAATGAAAATGCGGCTGCAGGGACA
CGGTTAGTGCTTCCCTTCGCGCGGGATGCGGATGTGGGTGTGAACCTCTCTCCGGAGTTACCAGCTCAGCTCCAAT
CTGCACCTTCTCTCTGGATGTGCTAAGCGGAAGTATGGACAAAAGTATCCGGAGCTGGTGTGGAACAGCCCCTA
GACCGCGAGAAAGAGACTGTTACGACCTCCTCCTCACAGCTTTAGATGGCGGAGACCCGGTACTCTCCGGCACC
ACGCACATCCGTGTTACGGTCTCGACGCAAACGACAATGCGCCCTGTTACCCCCATCCGAGTACAGCGTGAGT
GTTCCAGAGAACATACCTGTGGGCACTCGGCTGCTCATGCTAACCGCCACGGATCCAGATGAGGGGAATAAACGGG
AAATTGACCTACTCTTTTCGCAATGAAGAAGAAAAAATTTTCGGAGACTTTCCAACCTTGATTCCAACCTGGGGGAA
ATCTCAACTCTACAATCACTGGACTATGAAGAATCCAGATTCTACCTCATGGAAGTGGTAGCTCAGGATGGAGGC
GCTCTTGTGGCAGCGCTAAGGTGGTGGTCACAGTACAGGACGTGAATGACAATGCCCCGGAAGTGATCCTCACC
TCTCTGACCAGTTCGATCTCTGAAGACTGTCTTCCCGAACTGTAATCGCGCTGTTTAGCGTACATGATGGTGAT
TCTGGAGAAAATGGTGAGATTGCATGCTCTATTCTAGGAATTTGCCTTTTAAATTGGAGAAGTCAGTTGATAAT
TACTATCACCTATTAACAAGTGGGACCTGGACAGAGAAGAGACTTCAGATTATAATATCACTTTAACCGTCATG
GACCATGGAACCCCGCCCTCTCTACAGAAAGCCACATCCCTTGAAAGTAGCAGACGTTAATGACAACCCACCC
AATTTCCCTCAAGCCTCCTACTCCACCTCTGTACAGAAAACAATCCAGAGGTGTCTCTATCTTCTCTGTGACA
GCCCATGACCCCGACAGCGGCGACAACGCTCGAGTCACCTACTCCCTGGCTGAAGACACATTTACAGGGGGCGCCC
TTGTCTCTCTATGTATCCATTAACCTCTGACACCGGTGTCTGTATGCTCTGAGATCCTTCGACTATGAGCAGTTG
AGAGACCTACAGTTGTGGGTGACAGCCAGCGACAGTGGGAACCTCCACTTAGCAGCAACGTGTCTGCTGAGCCTG
TTTGTGCTGGACCAGAACGACAATACGCCTGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACGGGCGTG
GAGCTGGCGCCTCGCTCCGCAGAACCTGGCTACCTGGTGACCAAGGTGGTAGCGGTGGACAAAGATTACAGGCCAG
AACGCCTGGCTGTCTACCGCCTGCTTAAGGCCAGCGAGCCAGGACTCTTTGCGGTTGGGCTGCACACGGGCGAG
GTGCGCACAGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTGCAAGACCATGGC
CAGCCCCCTCTGTGACCCACCTTCACGGTACCGTTGCCGTGGCCGACAGGATCCCTGACATCCTGGCTGACCTA
GGCAGTATCAAGACCCCCATTGACCCTGAGGATCTGGACCTCACACTCTATCTTGTGGTGGCAGTGGCTGCAGTC
TCCTGCGTCTTCTGCGCTTCGTCATCGTGTCTGCTGGTGTCTGAGTGGGCGCTGGCACAAGTCACGCCTGCTT
CAGGCTGAAGGCAGCAGGTTGGCGGGTGTGCCCGCCTCGCACTTTGTGGGCGTGGATGGGGTTCCGGCTTTCTTG
CAGACCTATTCCCACGAGGTCTCCCTCACCGCGACTCGAGGAAGAGTCACCTGATCTTTCCCCAGCCCACTAC
GCAGACACGCTCCTTAGTGAAGAGAGCTGTGAGAAAAGCGAGCCTCTTCTGATGTCTGATAAGGTAGATGCAAAAC
AAAGAAGAACGGCGAGTTACGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCTACGGACCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAAATGAGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTT
CTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAATCAATCAGGCCCATCCATCCCATGCCTCC
CTCCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCATGGTACTGATGCTTGGTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTTCATTGTTTACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1746B

ATGGTGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTTAGGACCAGGTCCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCAGCGGGCCCGTGTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCCCTCCCCGTAAGTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCCTGTGTCTCACGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1747

MASPPRGWGCCELLLPFMLLGTLCCEPGSGQIRYSMPPELDKGSFVGNIAKDLGLEPQELAERGVRIVSRGRTQLF
ALNPRSGSLVTAGRIDREELCAQSPLCVVNFNILVENKMKIYGVEVEIIDINDNFPRFRDEELKVKNENAAAGT
RLVLPFARDADVGVNSLSYQLSSNLHFSLDVVSGTDGQKYPELVLEQPLDREKETVHDLTALDGGDPVLSGT
THIRVTVLDANDNAPLFTPSEYSVSVPENIPVGTRLLMLTATDPDEGINGKLTYSFRNEEEKISETFQLDSNLGE
ISTLQSLDYEESRFYLMVVAQDGGALVASAKVVTVQDVNDNAPEVILTSLSSTSSIEDCLPGTVIALFSVHDGD
SGENGEIACSIIPRNLPFKLEKSVDNYYHLLTTRDLREETS DYNITLTVM DHGTPPLSTESHIPLKVADVNDNPP
NFPQASYSTSVTENNPRGVSIFSVTAHDPD SGDNARVTYSLAEDTFQGAPLSSYVSINSDTGVL YALRSFDYEQ
RDLQLWVTASDSGNPPLSSNVLSLFLVDQNDNTPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSGQ
NAWLSYRLKASEPGLFAVGLHTGEVRTARALLDRDALKQSLVVAVEDHGOPLSATFTVTVAADRIPDILADL
GSIKTPIDPEDLDLTLYLVVAVAAVSCVFLAFVIVLLVLRRLRRWHKSRLQAEGRLAGVPASHFVGVDGVR AFL
QTY SHEVSLTADSRKSHLIFPQPNYADTLLSEESCEKSEPLLMSDKVDANKEERRVQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTPNPNQFDTEMLQAMILASASEAADGSSTLGGGAGT MGLSARYGPQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1748A

ATGGCGCCTCCGCAGAGGCATCCGCAGCGCAGCGAGCAGGTCTGCTCCTCACGCTCCTGGGGACGCTGTGGGGG
GCCGCGGCAGCGCAGATCCGCTACTCTATTCCCGAGGAGCTGGAGAAAGGCTCCTTCGTAGGCAACATCGTCAAG
GATCTGGGACTGGAGCCCCAGGAGTTGGCGGAGCACGGAGTCCGCATCGTCTCCAGAGGTAGGATGCAGCTTTTC
TCTCTGAATCCGCGAAACGGCAGCTTGGTCACCGCGGGTAGGATAGACCGCGAGGAGCTCTGTGCTCAGAGCCCG
CGGTGTCTGGTGAGTTTTAACATCCTTGTTCGAGGATAAACTGAATCTTTATCCCGTGGAAGTGGAATAGTGGAC
ATTAATGACAATACACCCCGATTCTTAAAGGAAGAATTGGAAGTGAAAATTCTCGAAAACGCAGCTCCATCCTCT
CGTTTTCCACTAATGGAGGTCTATGACCCTGATGTGGGAATGAACTCCCTTCAGGGATTAAAGCTCAGTGGTAAT
AGTCACTTCTCAGTGGACGTGCAAAGCGAAGCCCATGGGCCCAAGTACCCGGAGCTGGTGCTGGAGGGCACACTG
GACCGGGAAGGAGAAGCCGTTTACCGCTGGTCTTACTGCCATGGATGGCGGCGACCCCTGTCCGCTCAAGCGTC
GCCCAAATTCTGGTAACAGTTCTAGATGTGAATGACAACACTCCAATGTTTACTCAGCCTGTCTACCGTGTAAGT
GTTCTGAAAACCTGCCAGTAGGCACACCAGTGTGGCAGTGACTGCCACCGACCAGGATGAAGGAGTCCACGGG
GAAGTAACCTTATTCCTTTGTGAAGATTACAGAAAAGATCTCACAATTTTCTGTTTGAATGTTTGTACTGGAGAA
ATTTCAACTTCTGCAAACTAGACTATGAGGACTCGAGTTTTTATGAGCTGGGTGTTGAAGCCCGGGATGGGCCA
GGTCTTCGAGACAGAGCGAAAGTCTTAATAACTATCTTGGATGTCAATGATAATGTACCAGAAGTGGTTGTTACA
TCTGGAAGCAGAACAATTGCTGAAAGTGACCTCCAGGAACAGTAATCGCCCTTTTCAAGTGTTTCGATCGAGAC
TCTGGCCTGAATGGCCTGGTAACCTGTTCCATCCCGAGAAGTCTCCCATTTGAATTGGAATAATCAGTTGGCAAT
TATTATCGATTAGTGACAAATGCAGCTCTAGACCGGGAAGAGGTATTCTTGTACAACATCACTGTGACAGCCACG
GACAAAGGAACACCACCTCTGTCTACAGAAACAATCATCTCTCTAAATGTGGCAGACACCAACGACAACCCGCC
ACCTTCCCCCATTCATCCTACTCAGTCTATGTCTTGAAAACAACCCAGGGGTGCCTCCATCTTCTCTGTGAAT
GCACTGGACCCTGACGTGGACCAGAACGCCCAAGTCTCTACTCACTGGCAGAAGACACCCTCCAGGGGGCGCCC
CTGTCTCTCTACGTGTCCATCAACTCCGACACTGGGATTCTGTACGCCCTGCGCTCCTTCGACTATGAGCAGTTG
AGAGACCTACAGCTGTGGGTGACAGCCAGCGACAGCGGGGACCCGCCTCTTAGCAGCAACGTGTCACTGAGCCTG
TTTGTGCTGGACCAGAATGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTG
GAGCTGGCGCCCCGCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCCTGGCTGTCTACCGCCTGCTCAAGGCCAGCGAGCCAGGACTTTTCTCAGTGGGCCTGCACACGGGCGAG
GTGCGCACGGCGCGCGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTAGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCCTCTCTCCGCCACTGTACGCTCACCCTGGCCGTGGCCGACAGGATCCCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCAACGATTCCGACCTCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTC
TCCTGCGTCTTCTGGCCTTCGTATCGTGTCTGTCGCTCAGACTGCAGCGCTGGCACAAGTCACGCTGCTG
CAGGCTTCGGGAGGTGGCTTAGCGAGCATGCCCGCTCGCACTTTGTGGGCGTGGAAGGGGTTTCGGCTTTCCTG
CAGACCTATTCCCACGAGGTCTCACTCACTGCAGACTCGCGTAAGAGTCATCTGATTTTCCCCAGCCCACTAT
GCCGACACGCTTATCAACCAGGAGAGCTATGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAACG
AAAGGAGAACCCAGGCAACTTCAGCAAGCCCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCTAACCCCAAGAACTAGGTAGGGGCCAAGGCCATGC
TCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTGTAGTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTCTCTCTTCCCGAGTAAGGTGGTGGGGTGGTGAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTCACTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATCACCATCCCCATGGTACTGATGCTTGTGGAATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCCACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1748B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGTTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTCATAGACCTTCTTCTCCACCCCC
CTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCCGCGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAA
AAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1749

MAPQORHPORSEQVLLLTLLGTLWGAAAAQIRYSIPEELEKGSFVGNIVKDLGLEPQELAEHGVRIVSRGRMQLF
SLNPRNGSLVTAGRIDREELCAQSPRCLVSFNILVEDKLNLYPVEVEIVDINDNTPRFLKEELEVKILENAAPSS
RFPLMEVYDPDVGMNSLQGFKLSGNSHFSDVQSEAHGPKYPELVLEGTLDREGEAVYRLVLTAMDGGDPVRSSV
AQILVTVLVDVNDNTPMFTQPVYRVSVPENLPVGTPLAVTATDQDEGVHGEVTYSFVKITEKISQIFCLNVLTGE
ISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNVPEVVVTSGSRTIAESAPPGTVIALFQVFD RD
SGLNGLVTC SIPRSLPFELEKSVGNYYRLVTNAALDREEVFLYNITVTATDKGTPPLSTETIISLNVADTNDNPP
TFPHSSYSVYVLENNPRGASIFSVNALDPDQNAQVSYSLAEDTLQGAPLSSYVSINSDTGILYALRSFDYEQ L
RDLQLWVTASDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADRIPDILADL
GSLEPSAKPNDSDLTLYLVVAVAAVSCVFLAFVIVLLALRLQRWHKSRLQASGGGLASMPGSHFVGVEGVRAFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLINQESYEKSEPLLITQDLLETKEGPRQLQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1750A

ATGGCGGCTCAGCCGAGGGGCGGGGACTACAGAGGATTCTTCCTGCTCTCCATCCTCCTGGGGACCCCCTGGGAA
GCCTGGGCAGGACGTATTCTCTACTCCGTGTCGGAGGAGACGGACAAAGGGTCCTTTGTGGGAGACATCGCCAAAG
GACCTGGGGCTGGAGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCATCTCCAGAGGTAGGACGCAGCTTTTC
GCCCTGAACCAGCGCAGCGGCAGCTTGGTCACTGCGGGCAGGATAGACCGGGAAGAGATCTGCGCTCAGAGTGCG
CGGTGTCTGGTAACTTTAACATCCTGATGGAAGATAAAATGAATCTTTACCCTATAGACGTGGAAATAATAGAT
ATTAATGACAACGTTCCAAGATTCTTGACGGAAGAAATAAATGTAAAAATAATGGAGAATACAGCTCCTGGGGTT
CGGTTTCCGTTAAGCGAGGCTGGGGATCCAGATGTGGGCACGAACTCCCTCCAGAGTTACCAGCTCAGCCCCAAT
CGCCACTTCTCCCTGGCTGTGCAAAAGTGAGACGATGAAACTAAGTACCCGGAAGTGGTGCTGGAGCGGGTGCTG
GACCGGGAGGAAGAGCGGGTTACCCACCTGGTCTCACAGCCTCTGATGGCGGCGACCCGCCCCGATCCAGCACC
GCCACATCCAGGTGACAGTGGTGATGTGAATGACCACACGCCTGTCTTCTCTCTGCCTCAGTACCAAGTAACT
GTCCCCGAGAATGTGCCAGTGGGTACAAGACTGCTCACGGTACATGCTATCGACCTGGACGAGGGAGTCAATGGG
GAAGTGACATATTCTTTTCGGAATAAATACTCCTAAACTTCCAAAGATGTTTCATCTGAACTCGCTTACAGGAGAA
ATATCAACTTTAGAAAGGATTAGATTATGAAGAACTGCCTTCTATGAAATGGAGGTTTCAAGCTCAAGATGGTCTCT
GGTAGTCTGACAAAGGCAAAAGTACTGATCACAGTTTTAGATGTAAATGATAATGCTCCAGAAGTGACTATGACG
TCTTTAAGTAGCTCAATCCCTGAAGACACACCTCTTGGGACAGTCAATTGCTCTTTTCTACCTACAAGACAGAGAT
TCTGGAAAGAATGGTGAGGTGACCTGCACCATTCCAGAAAACCTACCTTTTAAATTAGAAAAATCAATAGATAAT
TATTATAGATTGGTCACAACCAAAAACCTTGACCGGGAAACACTCTCTTTGTATAACATCACACTGAAAGCCACA
GATGGTGGAACCTCTCCCTTGTCAGGGAAACTCACATATTATGCAGGTGGCAGACACCAACGATAAACCACCC
ACCTTCCCCCACTCATCCTACTCAGTCTACATCGCTGAGAACAACCCAGAGGGGCTCCATTTTCTTAGTGACT
GCACAGGACCACGACAGTGAGGATAATGCCAGATCACTTATTCCTTGGCCGAAGACACCATCCAGGGGGCTCCA
GTGTCTCTCTATGTCTCCATAAACTCTGACACTGGAGTCTGTACGCGCTGCAATCCTTTGATTATGAGCAGTTG
AGAGAACTACAATAAGAGTGACTGCACATGACAGCGGGGACCCGCCTCTCAGCAGCAACATGTCACTGAGCCTG
TTCGTGCTGGACCAGAATGACAACCCGCCGAGATCCTGTACCCGGCCCTCCCCACAGATGGTTCTACTGGCATG
GAGCTGGCACCCCGCTCCGACAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAAAGATTACAGGCCAG
AACGCCTGGCTGTCTACCTCCTGCTTAAGGCCAGCGAGCCAGGACTCTTTGCGGTTGGGCTGTACACGGGCGAG
GTGCGCACGGCTCGGGCCCTGCTGGACAGAGATGCCCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGT
CAGCCTCCTCTGTGACCCACCGTCACACTCACCGTGGCTGTGGCTGACAGCATCCCCGAAGTCTTGGCCGACCTG
GGCAGCCTTGAGCCCTCCGACGGTCTTACAACATGACCTCACGTTGTACCTGGTGGTGGCGGTGGCCACAGTC
TCCTGCGTCTTCTAGCCTTCGTCTCGTACTGCTGGCGCTCAGGCTGCGGCGCTGGCACAAGTACGCCTGCTG
CAGGCTTCAGAAGGTGGCTTGGCGAACGTGCCACCTCGCACTTTGTGGGCATGGACGGGGTGCAGGCTTTCCTG
CAGACCTATTCCCATGAGGTCTCCCTCACCGCGGACTCTCGGAAGAGTCACTGATCTTCCCCAGCCCAACTAT
GTAGACATGCTCATCAGCCAGGAGAGCTGTGAGAAAAATGATTCTTTGCTAACATCCGTAGATTTTCAGGAATGT
AAAGAAAACCTGCCAAGTATTAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTCACTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATACCATCCCCATGGTACTGATGCTTGCTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACCACTCTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1750B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1751

MAAQPRGGDYRGFFLLSILLGTPWEAWAGRILYSVSEETDKGSFVGDI AKDLGLEPRELAERGVRIISRGR TQLF
ALNQRSGSLV TAGRIDREEICAQSARCLVNFNILMEDKMNLYPIDVEIIDINDNVPRFLTEEINVKIMENTAPGV
RFPLSEAGDPDVG TNSLQSYQLSPNRHFS LAVQSGDDETKYPELVLERVLDREEERVHHLVLTASDGGDP PRSST
AHIQVTVVDVNDHTPVFSLPQYQVTVPENVPVGTRLLTVHAIDLDEGVNGEV TYSFRKITPKLPKMFHLNSLTGE
ISTLEGLDYEETAFYEMEVQAQDGP GSLTKAKVLITVLDVNDNAPEVTMTSLSSSIPEDTPLGTVIALFY LQDRD
SGKNGEVTCTIPENLPFKLEKSIDNYYRLVTTKNLDRETL SLYNITLKATDGGTPPLSRETHIFMQVADTNDNPP
TFPHSSYSVYIAENNPRGASIFLVTAQDHDSEDNAQITYSLAEDTIQGAPVSSYVSINS DTGVLYALQSF DYEQL
RELQLRVTAHDSGDPEPLSSNMSLSLFVLDQNDNPPEILYPALPTDGSTGMELAPRSAEPGYLVTKVVAVDKDSGQ
NAWLSYLLLKASEPGLFAVGLYTGEVRTARALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPEVLADL
GSLEPSDGPYNYDLTLYLVVAVATVSCVFLAFVLVLLALRLRRWHKSRL LQASEGGLANVPTSHFVGMDGVQAF L
QYSHEVSLTADSRKSHLIFPQPNYVDMLISQESCEKNDSLLTSVDFQECKENLP SIQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1752A

ATGGCAGCTCCAAACCAAATGCCAGCTCCGCGGAAGATTAGTCCTGCTATGCTCGCTCCTGGGGATGCTATGGGAG
GCCAGGGCCAGTCAGATTGCTACTCAGTGCCTGAAGAGACAGAAAAGGGCTATATTGTGGGCAACATCTCCAAG
GACCTGGCTCTGGAGCCCCGGGAGCTGGCGGAGCGCCGAGTCCGCATCGTCTCTAGAGGTAGGACGCAGCTTTTC
TCTCTGAACCCGCGCAGCGGCACCTTGGTCACCGCGGGTAGGATAGACCGGGAGGAGCTCTGTGCTCAGAGCCCG
CGGTGTCTGGTGAACTTTAAAGTCCTGGTTGAAGACAGAGTGAACTGTACGGAATAGAAATAGAAGTAACTGAT
ATTAACGACAGCGCCCCAAAGTTCAGGCCGAAAGTCTGGAAGTAAAAATTAACGAAATCGCGGTTCCCTGGAGCA
CGTTATCCACTTCCAGAAGCTATTGATCCGGATGTTGGCGTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCCAAT
CACCATTCTCCCTGAACGTGCAGACTGGAGACAATGGAGCCATAAACCCAGAGCTGGTGTGGAGCGCGCCCTG
GACAGGGAGGAGGCAACTGCCACCACCTGGTCTCACGGCTCGGATGGCGGCGAGCCGCTCGCTCCAGCACA
GTGCGCATCCATGTGACAGTGTGGATACAAATGATAATGCCCCGGTTTTTGCTCAACGGATTTACCGAGTTAAA
GTCTTGAGAACGTGCCCCCAGGCACCTGGCTGCTTACTGCAACAGCCAGCGACCTGGATGAGGGAATCAACGGA
AAAGTGGCATACAAATCTGGAAAATTAATGAAAAACAATCTCTGCTATTCCAGCTTAATGAAAATACTGGGGAA
ATATCAACAGCAAAAAGTCTAGATTATGAAGAATGTTTCAATTTTATGAAATGAAATACAAGCTGAAGATGGTGGG
GGATTGAAAGGGTGGACAAAAGTGCTCATTTCCGGTGGAAAGATGTAAATGACAATAGACCTGAAGTGACCATTACA
TCTCTGTTTAGCCAGTGAGAGAAGACGCACCTCAGGGAACAGTAATTCTTCTTTTCAATGCTCATGACCGAGAC
TCCGGGAAGAATGGTCAAGTTGTCTGTTCTATCCAGGAGAATCTATCTTTTACATTAGAAAATTCAGAAGAAGAT
TATTACAGATTGTTGACGGCCCCAAATTCTTGACCGAGAAAAAGCCTCAGAATATAATATCACGGTGACTGCAACA
GACAGAGGAACTCCGCCCTGTCCACAGAAATTCACATCACCTGCAAGTGACTGACATCAATGATAATCCACCT
GCTTTCTCTCAAGCCTCCTACTCAGTCTACCTCCCGGAAAACAACGCCAGAGGTACTTCCATCTTCTCCGTGATT
GCCTATGACCTGATAGCAATGAGAATTCTAGAGTTATTTACTCCTTGGCAGAGGATACCATCCAAGGTCTCCT
CTCTCCACCTATGTCTCTATTAACCTCAGACACTGGTGTGCTGTATGCTCTGTGCTCCTTTGACTATGAGCAGTTT
AGAGATTTGCAATGCAGGTGACGGCAAGTGACAGTGAAGCCCACCCTTAGCAGCAATGTGTCAATTGAGACTG
TTTGTTTTGGACCAGAATGACAATGCCCCAGAAATCCTGTACCCTGCCCTCCCCACTGATGGTTCTACTGGTGTG
GAGCTGGCACCCCGCTCTGCAGAGCCTGGCTACCTGGTGACCAAGGTGGTGGCAGTGGACAGAGACTCAGGCCAG
AATGCTTGGCTCTCCTACCGCCTATTCAAGGCCAGTGAGCCAGGGCTCTTCTCGGTGGGGCTGCACACAGGTGAA
GTGCGCACAGCTCGGGCCCTGCTAGATAGAGATGCGCTCAAACAGAGCCTTGTGGTGGCTGTACAGGACCATGGC
CAGCCCCCTCTCTCGGCCACTGTCACGCTCACAGTAGCCATAGCTGACAGCATCCCAGACATCCTGGCTGACCTG
GGCAGTCTTCAGATCCCTGCAGACCTGGAGGCCTCAGACCTTACCCTCTACCTCGTTGTGGCTGTGGCAGTCGTC
TCCTGTGTCTTCTCACCTTCGTTATCACGCTGCTGGCCCTCAGGCTGAGGCACTGGCACTCCTCGCATCTGCTG
CGGGCTACCAGTGATGGGTTGGCTGGTGTGCCACCTCACACTTTGTGGGTGTAGATGGGGTTTCGAGCTTTCCCTA
CAGACCTATTCTCAGGAGTTCTCCCTCACCGCTGACTCAAGGAAGAGTCACCTGATCTTCCCCCAGCCCAACTAT
GCAGACACACTCATCAGCCAGCAGAGCTGTGAGAAAAATGAGCCTTTGTGCGTCTCTGTTGATTCCAAGTTTCCT
ATAGAAGACACCCCTTTGGTTCCGCAAGCCCCGCCAACACGGACTGGCGTTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTTCCCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTTGGTGCCAGCCCCCTCACCTCCTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATACCATCCCATGGTACTGATGCTTGCTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1752B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTG
CCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1753

MAAPTCKQLRGRLVLLCSLLGMLWEARASQIRYSVPEETEEKGYIVGNISKDLALEPRELAERRVRIVSRGRTQLF
SLNPRSGTLVTAGRIDREELCAQSPRCLVNFKVLVEDRVKLYGIEIEVTDINDSAPKFQAESLEVKINEIAVPGA
RYPLPEAIDPDVGVNSLQSYQLSPNHHFSLNVQTDGNGAINPELVLERALDREEATAHHLVLTASDGGEPRRSST
VRIHVTVLDTNDNAPVFAQRIYRVKVLENVPPGTWLLTATASDLDEGINGKVAYKFWKINEKQSLLFQLNENTGE
ISTAKSLDYEECSFYEMEIQAEDGGGLKGWTKVLISVEDVNDNRPEVTITSLFSPVREDAPQGTVILLFNAHDRD
SGKNGQVVCSIQENLSFTLEENSEEDYYRLLTAQILDREKASEYNITVTATDRGTPPLSTEIHITLQVTDINDNPP
AFSQASYSVYLPENNARGTSIFSVIAYDPDSNENSRVIYSLAEDTIQGSPLSTYVSINSDTGVLYALCSFDYEQF
RDLQMQVTASDSGSPPLSSNVSLRLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLFKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQFPLSATVTTLTVAIADSIPDILADL
GSLQIPADLEASDLTLYLVAVAVVSCVFLTFVITLLALRLRHHSSHLLRATSDGLAGVPTSHFVGVDGVRAFL
QTYSQEFSLTADSRKSHLIFPQPNYADTLISQQSCEKNEPLCVSVDSKFP IEDTPLVPQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1754A

ATGCAGAGAGCCAGAGAAGCCGAAATGATGAAAAGTCAGGTACTGTTTCCCTTCCTGCTGTCTTTGTTCTGCGGG
GCCATCTCCCAGCAGATCCGATACACGATTCCAGAGGAGCTAGCCAACGGCTCACGGGTGGGGAAACTTGCCAAG
GATCTGGGGCTCAGTGTCCGGGAGTTGCCAACTCGAAAACCTGCGGGTTAGTGCAGAGGATTATTTCAACGTTAGT
TTGGAGAGCGGGGATTTGTTAGTGAACGGTAGGATAGATCGAGAGAAGATTTGCGGAAGGAACTTGAGTGTGCA
CTAGAATTCGAAACGGTCGCTGAAAACCCAATGAATGTTTTCCACGTGGTTGTTGTAATCCAAGATATTAATGAC
AATGCACCACGTTTCGTTGCAAAAAGGCATTGACTTAGAAATTTGTGAGTCAGCCTTACCCGGGGTAAAAATCTCT
CTGGATTCTGCTCAAGATGCAGATGTGGAAGGCAATTCCTGAAGTTATACACCATCAACCCCAATCAATACTTC
TCTCTGTCAACGAAGGAAAGTCCTGATGGAAGTAAATATCCGGTATTACTGCTGGAAAAACCTCTAGACAGGGAA
CATCAGAGCTCTCATCGCTTAATCCTGACTGCCATGGATGGCGGGGACCCGCCTCTAAGCGGCACCACCCATATC
TGGATCCGAGTTACGGATGCCAATGATAATGCTCCCGTGTTTAGCCAGGAGGTATACAGGGTTAGCCTCCAAGAA
AACGTACCGTGGGGAACCTCCGCTGCTGCGGGTGATGGCCACAGACCAGGATGAGGGCATTAAATGCAGAGATCACC
TATGCCTTCCTCAATTCCCCAATAAGTACCAGCCTCTTCAATCTCAATCCAAATACTGGCGACATCACAACCAAT
GGCACATTGGATTTTGAAGAGACAAGTAGATATGTGTTGAGTGTGGAAGCTAAGGATGGAGGAGTACACACAGCT
CACTGTAATGTTCAAATAGAAATTGTTGACGAGAATGACAATGCCCCAGAGGTGACATTTCATGTCTTCTCTAAC
CAGATTCCAGAGGATTACAGACCTTGGAAGTGAATAGCCCTCATAAAAGTGCGAGACAAGGATTCTGGGCAAAAT
GGCATGGTGACATGCTATACTCAGGAAGAAGTTCCTTTCAAATTAGAATCCACCTCGAAGAATTATTACAAGCTG
GTGATTGCTGGAGCCCTAAACCGGGAGCAGACAGCAGACTACAACGTCACAATCATAGCCACCGACAAGGGCAAA
CCAGCCCTTTCTCCAGGACAAGCATCACCTGCACATCTCCGACATCAACGACAATGCACCTGTTTTCCATCAG
GCCTCCTATGTGGTCCACGTGTCTGAGAACAACCCACCTGGCGCCTCCATTGCACAAGTAAGCGCCTCCGACCCG
GATTTGGGACCCAACGGCAGAGTCTCCTACTCTATTCTGGCCAGTGACCTGGAGCCGCGGGAGCTGTTGTCTTAC
GTGTCCGTGAGCCCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCGCCTTCGAG
CTCACACTGCAGGCCAGGGACAGGGCTCCCCCGCGCTCAGCGCCAACGTGAGCCTGCGCGTGTGGTGGGCGAC
CTCAATGACAATGCGCCACGGGTGCTGTACCCCGCGCTGGGGCCTGATGGCTCCGCCCTCTTCGATATGGTGCCA
CGCGCCGAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCGAGACTCAGGACACAACGCTTGGCTG
TCTTACCAGTGCTGCAGGCCAGCGAGCCCGGGCTCTTCAGCCTGGGGTTGCGCACGGGTGAGGTGCGCACAGCG
CGTGCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTTCGCTGCGTGATGGAGGACAGCCGCCACTC
TCCGCCACCGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTCAGCGACCGCCCT
GAGCCCTCTGACCCCCAGACGGAAGTGCAGTTTTACCTGGTTGTGGCCTTGGCCTTGATCTCAGTGCTCTTTCTC
CTCGCGGTGATTCTAGCGATCGCCCTGCGCCTGCGACGTTCTCCAGCCTCGACACTGAGGGCTGCTTTCAAACC
GGTCTCTGCTCCAAGTCTGGGCCCCGGGTTTCTCCCAACCACAGCGAGGGGACTTTGCCCTATTCTTACAATCTA
TGTATTGCCTCTCATTCTGCAAAGACAGAGTTTAATTCTCTCAACCTGACACCGGAAATGGCTCCCCCTCAGGAT
CTGCTGTGTGATGATCCTTCTATGGTTGTATGTGCCAGTAATGAAGATCACAAAATCGCTTATGACCCTTCTTTG
TCTTCGCACCAAGCCCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAA
AATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCC
GCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCCCGCTACGGA
CCCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACC
AAGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAG
AAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAGCTTCTCCTTACCTGC
ACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACA
GAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAAC
CCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTTGCCACACCCC
GTTTAGTTACAGCTGAACCTCCTCCATCTTCAAATCAATCAGGCCATCCATCCCATGCCTCCCTCCTCCCCACC
CCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGTAAGTACCAAGTAACCTACAAGCCTCCTAG
TTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTT
GGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCA
TGGTACTGATGCTTGTGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCACTCT
TCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGAC
TCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATGGTGGGGCA

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FIGURE 1754B

TGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATC
CTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCC
AGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTAGTCCAAGGAAGCTCGAAGCAGGTTTAGG
ACCAGGTCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTC
AGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGG
CAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTC
AGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTGG
CCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCCTTCTGCCCTGGGT
CCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTC
GGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGCGGGCT
CCGCGCAGCCGTCTGTCTTGATCTGCCCAGCGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCG
ACCCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCTCTT
CCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTT
TCTTCTGAAAAGCTG

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FIGURE 1755

MQRAREAEMMKSQVLFPFLLSLFCGAISQQIRYTIPEELANGSRVGKLA KDLGLSVRELPT RKL RVSAEDYFNVS
LESGDLLVNGRIDREKICGRKLECALEFETVAENPMNVFHVVVVIQDINDNAPREFVAKGIDLEICESALPGVKFS
LDSAQDADVEGNSLKLYTINPNQYFSLSTKESPDGSKYPVLLLEKPLDREHQSSHRLILTAMDGGDPPLSGTTHI
WIRVTDANDNAPVFSQEVYRVSLQENVPWGTSVLRVMATDQDEGINAEITYAFLNSPISTSLFNLNPNTGDITTN
GTLDFEETSRYVLSVEAKDGGVHTAHCNVQIEIVDENDNAPEVTFMSFSNQIPEDSDLGTVIALIKVRDKDSGQN
GMVTCYTQEEVFPKLESTSKNYYKLVIAGALNREQTADYNVTIIATDKGKPALSSRTSITLHISDINDNAPVFHQ
ASYVVHVSENNPPGASIAQVSASDPDLGPNGRVSYSLASDLEPRELLSYVSVSPQSGVVFAQRAFDHEQLRAFE
LTLQARDQGSPALSANVSLRVLVGDLNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGHNAWL
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVLPDLSDRP
EPSDPQTELQFYLVVALALISVLFLLAVILAIALRLRRSSSLDTEGCFQTGLCSKSGPGVPPNHSEGTLPSYNL
CIASHSAKTEFNLSNLTPEMAPPQDLLCDDPSMVVCASNEDHKIAYDPSLSSHQAPPNTDWRFSQAQRPGTSGSQ
NGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLT
NAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1756A

ATGAAGCGAGCTCAGGGAGGTGCGGGCTGGTGCGGTGGCTGCAGGTACTGTTGCCCTTCCTGTTGTCTTTGTTT
CCCCGGGGCTCTCCAGTCCAGATCCGCTATTCAATTCCAGAGGAGCTGGCCAAAACTCGGTTCGTAGGAAACCTC
GCCAAGGATCTGGGGCTCAGCGTCCGGGACTTGCCAGCCCCGAAGCTGCGGGTTAGCGCGGAGAAGGAATATTTTC
ACAGTAAACCCAGAAAGCGGAGACTTACTTGTGAGTGACAGAATAGACCGAGAACAGATATGCGGGAAGCAGCCT
CTGTGTGTTCTGGATTTCGATACTGTCGCTGAAAATCCACTAAATATTTTCTACATAGCAGTAATTGTGCAGGAT
ATAAATGATAATACCCCCGCTATTCAAACAGACTAAGATTAATTTAAAAATTGGCGAATCCACTAAGCCAGGTACA
ACATTTCCACTTGACCCAGCCCTGGATTGAGATGTTGGTCCTAACTCACTACAAAGATACCACCTTAATGACAAC
GAGTACTTTGATCTCGCTGAGAAACAGACTCCAGATGGTCGTAAATATCTGAGTTGATTCTAAAACACTCTCTG
GACAGAGAAGAGCACAGTTTACATCAATTGGTCCTCACAGCTGTGGATGGCGGAGACCCACCTCAAAGTGGCAGC
ACCCAAATCCGAATCAAAGTCACGGATGCCAACGATAACCCTCCAGTGTTCAGCCAGGACGTGTACAGGGTCACC
CTGAGGGAGGACGTGCCCGCGGGCTTCTTTGTGCTTCAAGTGACAGCCACCGACCGGGATGAAGGCATAAACGCA
GAGATCACCTACTCCTTTTATAATGTGGACGAACAAGTGAAACACTTTTTCAACTTAAATGAAAAACAGGAGAA
ATCACGACAAAGGATGATTTGGATTTTGAGATTGCAAGTAGTTACACTCTGAGTATCGAAGCAAAAGATCCTGGA
GATCTAGCAGCCCCACTGCAGTATCCAAGTTGAAATCTTGATGACAACGATTGTGCACCTGAAGTTATTGTGACT
TCAGTATCTACTCCCCCTACCGGAGGATTCGCCACCAGGAACAGTGATCGCCTTGATAAAAAACGAGAGACAGAGAC
TCTGGAGAAAATGGAGAAGTTTACTGCCAAGTGTTGGGAAATGCCAAGTTTATTTTGAAATCTTCCTCAAAGAAC
TATTACAACTAGTGACAGACGGCGCTCTGGACCGGGAGGAGATCCAGAATAACAATCTCACCATCACAGCCACC
GACGGGGGCAAGCCGCCCCCTCTCCTCCAGCATAATTGTACCCTGCACATCTCCGACGTCAACGATAATGCCCA
GTTTTCCAACAGACTTCTACATGGTTCACGTGGCAGAGAACAATCCTCCTGGCGCCTCTATCGCTCAAATCAGT
GCCTCTGACCCTGACTTGGGCCCCAGTGGCCAAGTTTCTACTCCATCGTAGCGAGCGACCTGAAGCCGCGGGAG
ATTTTATCCTACGTGTCCGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGATCATGAGCAGCTG
CGCGCCTTCGAGCTCACACTGCAGGCCCGCGACCAGGGCTCGCCCGCGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTAGTGGGCGACCTCAATGACAATGCGCCACGGGTGCTGTACCCCGCGCTGCGGCGCTGATGGCTCCGCCCTCTTC
GATA'GGTGCCACGCGCCGAGAGCCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCAGGACAC
AACGCTTGGCTGTCTACCAGTGCTGCAGGCCAGCGAGCCCCGGGCTCTTCAGCCTGGGGTTGCGCACGGGTGAG
GTGCGCACAGCGCGTGCCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTTCGCTGTGCGTGATGGAGGA
CAGCCGCCACTCTCCGCTACGGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTC
AGCGACCGCGGGAGCCCTCTGACCCCCAGGCAAACTGCAGTTTTACCTGGTTGTGGCCTTGGCCTTGATCTCA
GTGCTCTTCTTCTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGACTCTCTTCAGGTGAGGTGCTTGGGAC
TGTTTTACAGCTGGTCTCAGCTCCAAGCCTGGACCTGGGGTTCTCCCCAATTACAGTGAGGGTACATTGCCCTAT
TCCTACAACCTGTGTGTTGCCTCACAAATCAGCCAAGACAGAGTTCAATTTTCTGAACATAACCCCGGAATTGGTT
CCCGCGCAAGATCTCGTCTGTGACAATGCCTCTTGGGAACAAAATACAAATCATGGAGCCGCTGGGGTCCCTTTT
GCCTCAGATACTATTTTGAAGCAAGCCCCGCCCCAACAGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCTACGGACCCAGTTTACCCTGCAGCACGTGCCCCACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCAGCCCAGCTT
CTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGGAAGTACCAAGTAACCTA
CAAGCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCTCTCT
CAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1756B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTTAGGACCAGGTCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCAGCGCGGCCCGTGTGTTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAAA
TAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1757

MKASSGRCGLVRWLQVLLPFLLSLFPGALPVQIRYSIPEELAKNSVVGNLAKDLGLSVRDLPAKLRVSAEKEYF
TVNPESGDLVSDRIDREQICGKQPLCVLDFDTVAENPLNIFYIAVIVQDINDNTPLFKQTKINLKIGESTKPGT
TFPLDPALDSVGPNSLQRYHLNDNEYFDLAEKQTPDGRKYPELILKHSLDREEHSLHQLVLTAVDGGDPPQSGT
TQIRIKVTDANDNPPVFSQDVYRVTLREDVPPGFFVLQVTATDRDEGINAEITYSFHNVDEQVKHFFNLNEKTGE
ITTKDDLDFEIASSTLSIEAKDPGDLAAHCSIQVEILDDNDCAPEVIVTSVSTPLPEDSPPGTVIALIKTRDRD
SGENGEVYCQVLGNAKFILKSSSKNYYKLVTGDALDREEIPEYNLTITATDGGKPPLSSSIIVTLHISDVNDNAP
VFQOTSVMVHVAENNPPGASIAQISASDPDLGPSQVSYIVASDLKPREILSYVSVSAQSGVVFAQRAFDHEQL
RAFELTLQARDQGSPALSANVSLRVLVGDLNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGH
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVL PDL
SDRREPSDPQAKLQFYLVVALALISVLFFLAVILAI SLRLRLSSRSDAWDCFQPLSSKPGPGVLPNYSÉGTLPY
SYNLCVASQSAKTEFNFLNITPELVPAQDLVCDNASWEQNTNHGAAGVPFASDTILKQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTPNPNQFDTEMLQAMILASASEAADGSSTLGGGAGTMLSARYGPFQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1758A

ATGGGAAATAGCTCCGGATGGAGGGGGCCAGCAGGGCAGAGGCGAATGCTATTTCTCTTCCTGCTCTCTTTGTTA
GACCAGGTTCTCTCCGAACCGATCCGCTACGCTATTCCCGAGGAGCTGGACAGGGGGCTCGCTGGTAGGGAACCTC
GCCAAGGACCTGGGGTTTGGCGTGGGGGATTTACCTACTAGGAACCTGCGGGTTATTGCAGAGAAGAAATTCCTTT
ACCGTGAGCCCCGAAAATGGGAACCTTACTTGTGAGCGACCGTATAGACCGAGAGGAGATTTGTGGCAAGAAGTCG
ACGTGTGTTCTGGAATTTGAAATGGTTGCTGAAAAGCCTTTAAACTTTTTTTCATGTAAGTGTGCTGATCCAGGAT
ATTAACGACAACCCACCGACCTTTAGCCAAAATATCACTGAGCTGGAAATCAGCGAACTGGCTCTCACTGGAGCC
ACATTTGCCCTGGAATCTGCGCAAGATCCTGATGTAGGTGTCAATTCGCTGCAGCAGTACTACCTCAGCCCTGAT
CCGCACCTTCTCTTTGATTCAAGAGGAGAACCTGGATGGCAGTAGGTACCCAGAGCTAGTACTGAAAGCACCCCTG
GACAGGGAAGAGCAGCCACATCACCACCTGGTCCTCACAGCTGTGGATGGGGGCGAGCCCTCCAGAAGCTGTACC
ACCCAGATCAGGGTAATTGTGCGAGATGCAATGATAACCCCCCAGTATTTACTCAGGACATGTACAGGGTCAAT
GTTGCAGAGAACCTGCCCGCTGGCTCCTCCGTATTAAAAGTGATGGCCATTGACATGGATGAGGGCATCAATGCC
GAAATCATCTATGCCCTTCATCAATATTGGCAAGGAAGTGAGACAACCTGTTCAAGCTGGACAGTAAAACGGGGGAA
CTCACCACTATTGGAGAACTGGACTTTGAAGAGAGAGATAGCTACACAATTGGGGTGAAGCAAAGGATGGTGGA
CATCACACTGCATATTGTAAAGTACAGATAGATATTTAGATGAAAATGACAATGCCCCGGAGATAACCCCTGGCT
TCTGAATCCCAACATATACAAGAAGATGCTGAGCTGGGGACTGCCGTTGCCCTGATCAAAACACATGATCTAGAT
TCTGGATTTAATGGAGAAATCCTATGCCAACTAAAAGGAACTTCCCTTTAAAATCGTTCAAGATACCAAAAAC
ACATACAGGTTGGTGACAGATGGAGCCCTGGACCGGGAGCAGATCCAGAATACAATGTGACGATCACAGCTACC
GACAAAGGCAATCCACCGCTCTCCTCCAGCAAGACCATCACTCTGCACATCCTTGATGTCAACGACAACGTTCCC
GTTTTCCACAGGCCTCCTACACCGTGCATGTAGCTGAGAACAATCCGCTGGAGCCTCCATTGCGCATGTCAGA
GCCTCGGATCCCGACTTGGGACCTAATGGCCTTGTCTCCTACTACATCGTGGCCAGTGACCTGGAGCCGCGGGAG
CTGTGCTCTACGTGTCCGTGAGCGCGCGGAGCGGGGTGGTGTTCGCGCAGCGAGCCTTCGACCACGAGCAGCTG
CGTGCCTTCGAGCTCACTCTGCAGGCCGCGACCAGGGCTCGCTACGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTGGTGGACGACCGCAACGACAATGCACCGCTGGTGTGTACCCAGCTCTGGGGCCGAAGGCTCTGCGCTCTTC
GATATGGTGCCGCGCTCTGCAGAGCCTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCGGGATAC
AACGCCTGGCTGTCTACACATTTGTGCAGGCCAGCGAGCCCGGGCTGTTAGCCTGGGCCTGCGCACGGGTGAG
GTGCGCACGGCGCGTACCTTGGGCGACAGGGAGGCCGCCCGCCAGCGCCTGCTGGTCACTGTGCGTGATGGAGGA
CAGCAGCCTCTTTAGCCACCGTCACTGTGCACCTAATCTTCGAGATAGCTTGCAAGAGATACAACCTGACCTT
AGCGACCGCCCCACTCCCTCTGACCCTCAGCGGAGCTACAGTTTACCTAGTAGTGGCGTTGGCCTTGATCTCA
GTGCTCTTCTCTCTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGATGCTCCTCCAGACCCGCCACTGAGGGC
TACTTTAGCCTGGTGTCTGCTTCAAGACTGTACCTGGAGTTCTCCCCACCTACAGCGAAAGGACTTTGCCTTAT
TCCTACAATCCGTGTGCTGCCTCACATTCCTCAAACACCGAGTTTAAATTTCTCAATATAAAGGCTGAAAATGCT
GCACCACAAGATCTTCTATGTGATGAAGCCTCTTGGTTTGAAGTAATGACAATCCAGAAATGCCTTCTAATTCA
GGCAATTTGAAAAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGC
TCCAAAATGGCGATGACACCGGCACCTGGCCCCAACACCAGTTTGACACAGAGATGCTGCAAGCCATGATCTTG
GCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATTGGGATTGAGCGCCCGC
TACGGACCCAGTTACCCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACA
CTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAG
AAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCAACCAGCCCAGCTTCTCCTT
ACCTGCACCCAGGCCTCAGAGTTTCAAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGG
GAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGAATATGAAAAGCAGTTCCGCT
GGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTTGCCA
CACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCATCCATCCCATGCCTCCCTCCTC
CCCACCCCACTCCAACAGTTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCC
TCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCA
TGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATACCA
TCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGAC
CAGTCTTCTGTTTTTGTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACA
AGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTG

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FIGURE 1758B

GGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGAC
AACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCCCAG
GCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGG
TTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGA
AGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGAGGCAGGGAG
CTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGA
AGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCC
TAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCTTCTGCCC
CTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGAGCGCCCCCTCCC
TCTTTCGGCTGGTGTAGAATAGCCAGTAGTGAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGG
CGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCT
AAGGCGACCCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCACCCCAC
CCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAA
AACGTTTCTTCTGAAAAGCTG

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FIGURE 1759

MGNSSGWRGPAGQRRMLFLFLLSLLDQVLSEPIRYAIPeelDRGSLVGNLAKDLGFGVGDLPTRNLRVIAEKKFF
TVSPENGNNLLVSDRIDREEICGKKSTCVLEFEMVAEKPLNFFHVTVLIQDINDNPPTFSQNITELEISELALTGA
TFALESAQDPDVGVNSLQQYYLSPDPHFSLIQKENLDGSRYPELVLKAPLDREEQPHHHLVLTAVDGGEPSRSCT
TQIRVIVADANDNPPVFTQDMYRVNVAENLPAGSSVLKVMaidMDEGINAEIIYAFINIGKEVRQLFKLDSKTGE
LTTIGELDFEERDSYTIgVEAKDGGHHTAYCKVQIDISDENDNAPEITLASESQHIQEDAELGTAVALIKTHDLD
SGFNGEILCQLKGNFPFKIVQDTKNtyRLVTDGALDREQIPEYNVTITATDKGNPPLSSSKTITLHILDVNDNVP
VFHQASYTVHVAENNPPGASIAHVrasDPDLGPNGLVSYYIVASDLEPRELSSYVSVSARSgVVFQAQRAFDHEQL
RAFELTLQARDQGSPTLSANVSLRVLVDDRNDNAPLVLYPALGPEGSALFDMVPRSAEPGYLVTKVVAVDADSGY
NAWLSYHIVQASEPGLFSLGLRTGEVRTARTLGdREAARQRLVTVRDGGQQPLSATVMLHLIFADSLQEIQPDL
SDRPTPSDPQaelQFHLVVALALISVLFLlavILAISLRLRCSSRPATEGYFQPGVCfKTVPGVLPTYsertLPY
SYNPCAASHSSNTEfKFLNIKAENAAPQDLLCDEASWFESNDNPEmpSnsGNLQKQAPPNTDWRFSQAQRPGTSG
SQNGDDTGTWPNNQFDTEMLQAMILASASEADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1760A

ATGGGGAGCGGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCCTGCTGTCTTTGTTC
TGCCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCCGAGGAAATGCCCAAGGGCTCCGTTAGTGGGGAACCTC
GCCACGGACCTGGGGTTCAGCGTCCAGGAGTTACCGACTCGAAAACCTGCGCGTCAGTTCGGAGAAGCCTTACTTC
ACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAGAAGCCA
GCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCACGTGAATGTGGAGATCGAGGAC
ATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTGCAAATAAGTGAGTCTGCACAGCCTGGCACA
AGATTTATACTAGAAGTAGCAGAAGATGCAGATATTGGCTTAAACTCTCTGCAGAAGTATAAACTCTCTCTTAAC
CCAAGTTTCTCATTAAATAATTAAGGAGAAACAGGATGGTAGTAAATACCCGGAACCTGGCACTGGAGAAAACCTTA
GACCGGGAACAACAGAGTTACCATCGTTTAGTCTGACTGCCTTGGACGGTGGACATCCACCCCTAAGCGGCACC
ACTGAGCTCCGGATCCAGGTAACCGACGCCAATGATAATCCCCGGTATTCAACCGAGACGTGTACAGAGTCAGC
CTTCGGGAAAACGTGCCACCAGGCACCACTGTGTTGCAAGTGTACGCCACTGACCAAGACGAGGGCATCAACTCA
GAAATTACTTATTCTTTCTACAGAACCGGGCAAATCTTTAGTCTGAATTCAAAGAGCGGAGAAATTACCCTCAA
AAGAACTGGATTTTGAAGAGACCAAGGAATATTCAATGGTTGTAGAAGGGAGGGATGGTGGTGGACTGGTTGCA
CAATGTACAGTTGAAATTAATATTCAAGATGAAAATGACAATAGCCAGAAAGTTACATTCCATTCTCTACTTGAA
ATGATTCTGGAAAACGCGGTGCCTGGAACACTAATTGCTTTGATCAAAATACATGACCAAGATTCTGGGGAAAAT
GGGGAGGTTAATTGTCAATTACAAGGCGAAGTCCCTTTTAAAGATTATCTCTTCATCCAAAATTCGTATAAGTTG
GTAACAGATGGAACCTTAGACCGAGAGCAAACCCCGGAGTACAATGTCACCATCACAGCCACAGACAGGGGCAAG
CCGCCCTCTCCTCCAGCATAAGCGTCATCTACATATCAGAGACGTCAACGATAACGCTCCGGTTTCCACCAG
GCGTCTACTTAGTCAGTGTAACCGAAAACAACCTCCTGGGGCCTCCATCGCGCAAGTCTGCGCCTCGGACCTG
GACTTGGGGTTGAACGGCCAAGTCTCTACTCTATCATGGCCAGCGACCTAGAGCCTCTGGCACTGGCCTCTTAC
GTGTCCATGAGCGCGCAAAGTGGGGTGGTGTTCGCGCAGCGCGCCTTTGACTACGAGCAGCTGCGCACCTTCGAA
CTCACACTACAGGCCCCGCGACCAGGGCTCGCCTGCGCTCAGCGCAAACGTGAGCCTGCGCGTGTGGTGGGCGAC
CGAAACGACAACGCACCGCGGGTGTGTACCCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATGGTGGCG
CGCGCTGCAGAGCCCCGCTACCTGGTGACCAAGGTAGTGGCGTGGACGCAGACTCAGGACACAACGCCTGGCTG
TCCTACCACGTGCTGCAGGCTAGCGAGCCCCGGGCTCTTCAGCCTGGGGCTGCGCACAGGAGAGGTGCGCACAGCG
CGTGCTTGGGCGACAGGGACGCGGCCCGCCAGCGCTGCTGGTTGCTGTGCGTGATGGTGGACAGCGCCCACTC
TCCGCCACCGCCACGCTGCACTTGGTCTTTGCTGACAGCTTGCAGGAGGTGCTGCCGGATATCACTGACCGCCCT
GTACCCTCTGACCCCCAGGCTGAGCTGCAGTTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGCTCTTCCTC
CTGGCCGTGATTCTGGCCGTTGCCTTGCCTGCGCCTGCGACGCTCCTCCAGCCCTGCCGCTGGAGCTGCTTCCAACCT
GGTCTCTGTGTCAAGTCTGGACCTGTGGTTCCCCCAACTACAGTCAGGGGACTTTGCCTTATTCTTACAACCTA
TGTGTTGCACATACAGGAAAGACGGAGTTTAATTTCTAAAATGTAGTGAGCAATTGAGTTCAGGACAAGACATA
CTTTGTGGTGATTCTATCTGGGGCCTTATTTCCACTTTGTAATTCCAGCGAGTCGACTTCCCATCTGAGTTGCAA
GCCCCGCCAAACACGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAATGGCGATGAC
ACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCT
GCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACC
CTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCCACTGACCAACGCAGCTGGC
AAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCGGGCAAGAAGGAGAAGAAGTAACAT
GGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCA
GAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGCCAAGGCCATGCTCCCCCTGGGAAACAGAAACAAGTGCC
CAGTCAGCACCTACCCCTTCCCCCCAGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAAACCCCATCCAATC
AACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGCCCACACCCCGTTTAGTTACAG
CTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAG
TTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTT
GGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCC
TTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGC
TTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCACTTCTGTTTTTGTTT
TTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGT
TCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTT

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FIGURE 1760B

GACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCA
GCCATAAACCAATAACTAGGCTGGACCCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTG
AGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCT
TGAGAGGTCAGAGGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGAAGGGTCAGCGGAGCCCCA
GCAGGAAGGGTGGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAAT
GAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCT
TGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGT
TAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCTGGGTCCCCGGCCATCC
AGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGA
ATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCAGGGCTCCGCGCAGCCGT
CTGTCTTGTATCTGCCCGCGGCGGCCCGTGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCC
GTACTGACTTCTCCTATAAGCGTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCAC
GCAAGTTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAG
CTG

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FIGURE 1761

MGSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSVVGNLATDLGFSVQELPTRKLRVSSEKPYF
TVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFELQISESAQPGT
RFILEVAEDADIGLNSLQKYKLSINPSFSLI I KEKQDGSKYPELALEKTL DREQQSYHRLVLTALDGGHPPLSGT
TELRIQVTDANDNPPVFNRDVYRVSLRENVPPGTTVLQVSATDQDEGINSEITYSFYRTGQIFSLNSKSGEITTQ
KKLDFEETKEYSMVVEGRDGGGLVAQCTVEINI QDEN DNSPEVTFHSLLEMILENAVP GTLIALIKIHDQDSGEN
GEVNCQLQGEVPFKI I SSSKNSYKLVTDGTL DREQTPEYNVTITATDRGKPPLSSSISVILHIRDVNDNAPVFHQ
ASYLVSPENNPPGASIAQVCASDL DLGLNGQVSYSIMASDLEPLALASYVSMSAQSGVVF AQRAFDYEQLRTFE
LTLQARDQGSPALSANVSLRVLVGDRNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGHNAWL
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLVFA DSLQEVL PDITDRP
VPSDPQAE LQFYL VVALALISVLFLLAVILAVALRLRRSSSPA WSCFQPGLCVKSGPVVPPNYSQGTLPYSYNL
CVAHTGKTEFNFLKCSEQLSSGQDILCGDSSGALFPLCNSSESTSHPELQAPPNTDWRFSQAQRPGTSGSQNGDD
TGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAG
KRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1762A

ATGGGAGGGAGCTGCGCGCAGAGGCGCCGGGCCGCGCCGCGGCAGGTGCTATTTCCCTTGCTGCTGCCTTTGTTCTACCCACCCCTGAGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGGGGAACCTCGCTAAGGATCTAGGGCTCAGTGTCCTGGATGTGTCGGCTCGCAAGCTGCGAGTGAGCGCGGAGAAGCTGCACCTTAGCGTAGACGCGGAGAGCGGGGACTTACTTGTGAAGAACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGAAGATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTTCATGTCATTGTGGTGATTGAGGATGTTAATGACCACGCCCCCTCAATTTGATAAAAAGGAAATACATTTAGAAATTTTCGAATCTGCATCCGCTGGTACACGACTATCGCTTGACCCCTGCCACGGATCCTGATATAAACATAAACTCAATTAAAGATTATAAGATAAACTCTAATCCTTATTTTTTCATTAATGGTTAGAGTTAATTCCGATGGTGGCAAATACCCAGAGTTATCTCTGGAGAACTCCTAGACCGGAAGAACAGAGATCTCATAGCTTGATATTGACTGCCTTGACGGAGGGGACCCACCAAGAAGTGCCACCCTCACATAGAAATTTCTGTCAAGGATACCAATGATAACCCCCCGGTTTTTCAGCAGAGACGAATATAGAATTAGTCTTAGTGAAAATCTGCCCCCTGGGTCCCCTGTGTTGCAAGTGACAGCCACTGACCAGGATGAGGGGGTCAATGCTGAGATAAACTACTACTTCCGAAGCACTGCCCAGAGCACAAAACATATGTTCTCATTGGATGAGAAAACAGGTATGATTAAGAATAACCAGTCATTTGATTTTGAAGATGTAGAAAGGTACACCATGGAAGTGGAAGCGAAGGACGGAGGTGGTCTCTCTACCCAGTGTAAGTAATCATAGAAATCCTTGATGAAAACGACAACAGCCAGAAATAATCATCACTTCTCTCTCTGATCAGATTTTGGAGAATTCACCTCCAGGAATGGTTGTTGCCCTCTTCAAAACACGGGATCTGGATTTCCGAGGAAATGGAGAAGTCAGGTGTAAATATAGAAACAGACATTCCATTCAAGATTTATTCTTCTTCCAATAACTACTACAACTGGTGACAGATGGAGCCCTGGACCGAGAGCAGACACCAGAATACAATGTCACCATCGTAGCCACTGACAGGGGCAAGCCGCTCTTTCTTCCAGTAGAAGCATCACCTTGATGTGCTGACATCAACGACAACGCCCCA GTTTTTCGACCAGACGTCCTACGTGGTCCACGTGGCCGAGAACAACCCGCCAGGAGCCTCCATTGCGCAAGTGAGCGCTCTGACCCGGATTTGGGGCTCAATGGCCACATCTCCTACTCTATAGTGGCGAGTGACCTAGAGCCCTGGCGGTGTCGTCTACATCGTGTGAGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTTGATCAGGAGCAGCTGCGCGCCTTCGCGCTCAGCTGACAGGCCGCGACCACGGCTCGCCACGCTCAGCGCCAACGTGAGCCTGCGCGTGTGGTGGGAGACCGCAATGACAACGCACCGCGGGTGCTGTACCCAGCTCTGGGTCTGACGGCTCCGCGTTCTTGATATGGTACCTCGCTCTGTCAGAGCCCGGCTACCTAGTGACTAAGGTGGTAGCGGTGGACGCCGACTCGGGACACAACGCCTGGCTGTCTACCACGTGCTGCAGGCCAGTGAGCCCGGACTCTTCAGCCTGGGGCTGCGCACTGGGGAGGTGCGCACGGCTCGAGCCTTAGGCGACAGGGACGCAGCCCGCCAGCGCCTGCTGGTCTGCTGTGCGTGACGGTGGA CAGCCGCCACTCTCTGCCACCGCCACGCTTCATCTGGTCTTCGCAGACAACCTGCAAGAGATACTGCCAGACCTCAGCGACCGCCCTGTACTCTCTGACCCCCAGGCTGAAGTGCAGTTTTTACCTGGTGGTGGCCTTGSCCTTAATCTCA GTGCTCTTCTCTCTCGCCGTGATTCTGGCCATTGCCTTGCGCCTGCGACGCTCTCTCAGCCCTGCTACTTGCGGAC TGCTTCCATCCTGGTCTCTGTGTCAAGTCTGGACCTGTAGTTCCCCCAACTACAGTGAGGGGACTTTGCCTTAT TCTTATAATCTGTGCATTGCACATACGGGTACAAAAGAGTTTAAATTTCTTAAATGCAGTGTGCCCTACATTCC AATGAAGACATGGTTTGCAGTGTTCTCTCTGGAGCCTTAATTCACCTCATGGTGGGGAGGATTTGACTTCACAT CCTGAGACTCTGACTTCGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGC GGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATC TTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCC CGCTACGGACCCAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCC ACCTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAGTCGGGC AAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTC CTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCC TGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCC GCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTG CCACACCCCGTTTAGTTACAGCTGAAGTCCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTC TCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGTAAGTACCAAGTAACCTACAA GCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAA GCATGGTTTGGTGCCAGCCCTTCACTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCA CCATCCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCAACGCCCTGGG GACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCTCAA ACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATG

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FIGURE 1762B

GTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACT
GACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCC
CAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGC
AGGTTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGT
GGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGG
GAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCC
TGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCC
CCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCTTCTG
CCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCT
CCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGG
CGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGC
GCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCC
CACCCTCTTCCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAA
TAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1763

MGGSCAQRRRAGPRQVLFPLLLPLFYPTLSEPIRYSIPEELAKGSVVGNLAKDLGLSVLDVSARKLRVSAEKLHF
SVDAESGDLVKNRIDREQICKERRRCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFDKKEIHLEIFESASAGT
RLSLDPATDPDININSIKDYKINSNPYFSLMVRVNSDGGKYPELSLEKLLDREEQRSHSLILTALDGGDPPRSAT
AHIEISVKDTNDNPPVFSRDEYRISLSENLPFGSPVLQVTATDQDEGVNAEINYFRSTAQSTKHMFSLDEKTGM
IKNNQSFDFEDVERYTMEVEAKDGGGLSTQCKVIEILDENDNSPEIIITSLSQILENSPPGMVVALFKTRDL
FGNGEVRNCNIETDIPFKIYSSSNYYKLVTGDALDREQTPEYNVTIVATDRGKPLSSSRSTLYVADINDNAP
VFDQTSYVVHVAENNPPGASIAQVSASDPDLGLNGHISYSIVASDLEPLAVSSYVSVAQSGVVFAQRAFDHEQL
RAFALTQARDHGSPTLSANVSLRVLVGDRNDNAPRVLYPALGPDGSAFFDMVPRSAEPGYLVTKVAVDADSGH
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLVFADNLQEILPDL
SDRPVLSDPQAELOFYLVVALALISVLFLLAVILAIALRLRRSLSPATWDCFHPGLCVKSGPVVPPNYSEGTL
SYNLCIAHTGTKEFNFLKCSVPLHSNEDMVCSVSPGALIPPHGGEDLTSHPETLTSQAPPNTDWRFSQAQRPGTS
GSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPFQFTLQHVPDYRQNVYIPGSNA
TLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1764A

GCTGCGCAGACCTTGCCCAGCACACCAGATTGCCAGCTCCGAGACCCGGGACTCCTCCTGTCCTGGGCGGAATGC
TCTTTTAGCGCGGTAGAGTGCACTTTCTCCAAGTGGAAAAGCGGGGACCCAGCGAGAACCCGAGCGAACGATGGG
AGGGAGCTGCGCGCAGAGGCGCGGGCGGGCCGCGCAGGTACTATTTCTTTGCTGCTGCCCTTTGTTCTACCC
CACGCTGTGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGGGGAACCTCGCTAA
GGATCTAGGGCTTAGTGTCTGGATGTGTGCGCTCGCGAGCTGCGAGTGAGCGCGGAGAAAGCTGCACTTCAGCGT
AGACGCGCAGAGCGGGGACTTACTTGTGAAGGACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGAAGATG
TGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTTCATGTGTCATTGTGGTGAATTGAGGATGTTAA
TGACCACGCCCCCTCAATTCCGGAAAGATGAAATAAACTTAGAAATCAGTGAATCCGTCAGCCTGGGGATGGGAAC
AATTCTTGAGTCTGCAGAAAGATCCTGATATTAGTATGAATTGCTGAGCAAATACCAACTAAGTCCTAACGAGTA
TTTCTCATTGGTGGAGAAAAGACAATCCTGATGGTGGCAAATATCCAGAATTAGTATTGCAGAAGACTCTGGACCG
AGAAACGCAGAGCGCTCACCCTTGGTACTGACCGCCTTAGATGGTGGGGACCCCTCCCCGAAGCGGTACTGCTCA
GATAAGAATCCTGGTAATAGATGCCAATGACAACCCCCAGTGTTTCAGCCAGGACGTGTACAGGGTTAGCCTTCG
GGAAGACGTGCCTCCAGGCACCTCCATCCTGAGAGTGAAGGCCACTGACCAGGACGAGGGCATCAACTCAGAGAT
CACTTATTCCTTCTTTGGTGTGGCTGACAAAGCTCAGCACGTGTTCTCTCTGGATTACACTACAGGAAACATTCT
AACTCAGCAGCCTTTGGATTTTGAAGAAGTAGAAAGATATACGATAAACATAGAAGCAAAGACCGAGGATCTCT
CTCAACACGGTGTAAGTAATTGTAGAAGTTGTAGACGAAAACGACAACAGCCCAGAAATAATCATCACGTCACT
CTCTGATCAGATTATGGAGGATTCCCCCTCAGGAGTGGTTGTTGCCCTCTTCAAAACACGGGACCAAGACTCAGG
GGAAAATGGGGAAGTCAGGTGTAGCTTAAGTAGAGGTGTTCCATTTAAGATTCACTCTCTCTTAATAATTACTA
CAAGCTAGTAACAGATGAGGCCCTGGATCGGGAGCAGACCCAGAGTACAACGTCACCATCGCAGCCACAGACAG
GGGCAAGCCTCCGTTATCCTCCAGCAAACCATAACCCTGCACATTACTGACGTCAATGACAACGCGCCGGTTTT
CGGACAGTCAGCCTACCTGGTCCACGTGCCAGAAAACAACCAGCCGGGTGCCTCCATAGCGCAAGTCAGTGCCCTC
TGACCCAGACTTTCGGGCTCAACGCGCGTGTCTCTACTCTCTCATTGCCAGCGACCTGGAGTCACGAACGCTGTC
GTCCTACGTGTCCGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCTTCGACCACGAGCAGCTGCGCAC
CTTCGAGCTCACGCTGCAGGCCCGCGACCAGGGCTCGCCCGCGCTCAGCGCCAATGTGAGCCTGCGCGTGTGGT
GGGCGACCGTAACGACAACGCACCGCGGGTGTGTACCCTGCGCTGGGTCCCGACGGCTCCGCGCTCTTCGACAC
AGTGCCCGGGGCGCGCAGCCAGGCTACCTGGTGACCAAGGTGGTGGCCGTGGACGCGGACTCGGGGCACAATGC
CTGGCTGTCTTACCACGTGGTGCAGGCCAGTGAGCCCGGGCTCTTCAGCCTGGGGCTGCGAACAGGCGAGGTGCG
CATGGTGCCTGCTTTGGGTGACAAGGACTCGGTCCGCCAGCGCCTGCTAGTCGCTGTAAGAGATGGAGGACAGCC
ACCCCTTTTCAGCCACTGCCACGTGCACCTGGTGTTCGCAGATAGCTTGCAAGAGGTACTGCCGGATTTTCAGCGA
CCATCCCACACCTCTGACTCCCAGGCTGAGATGCAGTTTTACCTGGTGGTGGCCTTGGCCTTGATTTCTGTGCT
CTTTCTCCTCGCGGTGATTCTAGCTATTGCTCTACGCTGCGACAGTCTTTTCAGCCCTACTGCAGGAGACTGCTT
TGAGTCAGTTCTCTGCTCCAAGTCCGGACCTGTGGGTCCCCCAACTACAGTGAGGGAACGTTGCCCTATGCCTA
TAATTTTTGTGTGCTTGGGATCAAATGAATCCAGAATTTAATTTTTTTCATCTGTTGATCATTGTCCAGCCAC
ACAAGATAACCTCAACAAAGATAGCATGCTACTGGCTAGCATTTTAACTCCCAGCGTTGAAGCAGATAAGAAGAT
TCTTAAACAGCAAGCCCCGCCAACACGGACTGGCGTTTTCTCTCAGGCCCAGAGACCCGGCACCGGCTCCCA
AAATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTC
CGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGG
ACCCAGTTTACCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGAC
CAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGA
GAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCAACCAGCCAGCTTCTCCTTACCTG
CACCAGGCCTCAGAGTTTTAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAAC
AGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAGCAGTTCCGCTGGGAA
CCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGCCACACCC
CGTTTAGTTACAGCTGAACCTCCTCCATCTTCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCAC
CCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTA
GTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTT
TGGTGCCAGCCCTTCACTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCC
ATGGTACTGATGCTTGGTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCGATC

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FIGURE 1764B

TTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGA
CTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGC
ATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGAGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACAT
CCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGC
CAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAG
GACCAGGTCCCCCTTGAGAGGTGAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGAAGGGT
CAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGG
GCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCT
CAGTCCTTACCTTGCCAGGTGCCGTTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTG
GCCATAGCCTGGTTAAAGTTCGCCAGTGCTCCTTGTGCATAGACCTTCTTCTCCCACCCCTTCTGCCCTGGG
TCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTT
CGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGC
TCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCGCTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGC
GACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCT
TCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGT
TTCTTCTGAAAAGCTG

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FIGURE 1765

MGGSCAQRRRAGPRQVLFPLLLPLFYPTLCEPIRYSIPEELAKGSVVGNLAKDLGLSVLDVSARELRVSAEKLHF
SVDAQSGDLLVKDRIDREQICKERRRCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFRKDEINLEISESVSLGM
GTILES AEDPDISMNSLSKYQLSPNEYFSLVEKDNPDGGKYPELV LQKTL DRETQSAHHLVLTALDGGDPPRSGT
AQIRILVIDANDNPPVFSQDVYRVSLREDVPPGTSILRVKATDQDEGINSEITYSFFGVADKAQHVFSLDYTTGN
ILTQQPLDFEEVERYTINIEAKDRGSLSTRCKVIVEVVDENDNSPEIIITSLSQIMEDSPPGVVVALFKTRDQD
SGENGEVRCSLSRGVPFKIHSSSNYYKLVTDEALDREQTPEYNVTIAATDRGKPPLSSSKTITLHITDVNDNAP
VFGQSAYLVHVPENNQPGASIAQVSASDPDFGLNGRVSYSLIASDLESRTLSSYVSVSAQSGVVFAQRAFDHEQL
RTFELTLQARDQGS PALSANVSLRVLVGDRNDNAPRVLYPALGPDGSALEFDTVPRAAQPGYLVTKVVAVDADSGH
NAWLSYHV VQASEPGLFSLGLRTGEVRMVRA LGDKDSVRQRLLVAVRDGGQPPLSATATLHLVFADSLQEVLPDF
SDHPTPSDSQAEMQFYLVVALALISVLFLLAVILAIALRLRQSFSPTAGDCFESVLC SKSGPVGPPNYSEGTLPY
AYNFCVPGDQMNPEFNFFTSVDHCPATQDNLNKDSMLLASILTPSVEADKKILKQQAPPNTDWRFSQAQRPGTSG
SQNGDDTGTPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1766A

ATGCTCCGCAAGGTGAGAAGCTGGACAGAAATCTGGCGGTGGGCTACCCTTTTGTTCCTCTTTTACCACCTGGGT
TACGTTTGTGGGCAGATCCGCTACCCGGTCCCAGAGGAGTCACAGGAAGGGACTTTTGTAGGGAATGTCGCTCAA
GATTCCTGCTGGATACGGACAGTCTGTCTAGCTCGCAGGCTGCAGGTCGCTGGAGAGGTGAACCAAAGACACTTC
CGTGTGGATTGAGACAGCGGAGCCCTGCTCATCAAGAACCCAATCGACCGAGAGGCACTGTGTGGGCTCAGTGCC
AGCTGCATCGTGCCCTGGAGTTTGTACCGAAGGTCCTTTGGAAATGTACCGAGCAGAGGTAGAGATCGTAGAT
GTGAATGATCACGCCCCCGTTTTCCGCGGCAGCAGCTGGACTTGGAAATTGGGGAGGCAGCTCCTCCAGGACAG
CGTTTCCCGTTGGAAAAGGCTCAGGATGCAGATGTGGGGAGCAATTCGATTAGCAGCTATAGGCTGAGCTCCAAT
GAACACTTTGCACTGGATGTGAAGAAGCGCAGCGACGGCAGCCTGGTCCCAGAGCTGCTCCTGGAGAAGCCTTTG
GATCGAGAGAAGCAATCGGACTACCGCCTGGTGCTGACTGCTGCTGATGGAGGGAACCCGCCGAGATCTGGCACC
GCAGAGCTCCGGGTATCCGTGCTGGACGTAAACGACAACGCCCCAGCCTTCCAGCAATCCAGCTACAGGATTAGT
GTGTTGGAGAGCGCACCAGCGGGCATGGTGCTCATCCAGCTCAATGCCTCAGACCCGGACCTGGGTCCCAGTGGT
AACGTCACCTTTTATTTTCACTGGTCATACCCCTGATCGTGAAGAAACCTCTTTAGCCTGCACCCCACTACTGGA
AAGCTTACTCTTTTGGGGCCCTAGACTTTGAGAGTGAGAATTACTATGAATTTGATGTGCGGGCTCGCGATGGG
GGTCTCCAGCCATGGAGCAACATTGCAGCCTTCGAGTGGATCTGCTGGACGTAAATGACAATGCCCCTTACATC
ACAGTGACCTCAGAGCTTGGAAACCTCCCCGAGAGTGCAGAACCTGGCACTGTGGTGGCACTTATCAGTGTGCAG
GATCCAGACTCAGGGTCAAACGGAGATGTGAGCCTCCGCATTCTGACCCTTGCCATTTGCCCTCAAGTCTGCC
TTCAGGAACCAAGTTCTCCCTGGTGACTGCTGGACCCTTGGATCGAGAGGCCAAATCTAGCTATGACATCATGGTC
ACTGCTTCTGATGCTGGGAACCTCCTCTCAGTACCCACAGAACTATTTTCTCAATATTTTCACTGTGAATGAT
AATCCACCCTCTTTCTTTTCAAGGTCACATGAGGTGTTTGTTCCTGAGAACAATCGCCAGGGGACCTGCTTTGC
TCCCTTGACGCTCTGACCCAGACTCTGGCTTGAATGCGCTTATCTCCTACTCACTCCTGGAGCCCAGGAATCGA
GATGTATCAGCTTCCTCTTTTCACTCTCTCTGAACCCCCAGACAGGAGCTGTTTATGCTACTCGATCCTTTGACTAT
GAGCAAACCCAGACACTGCAGTTTGGGTGACGGCCCGGATCGGGGCAACCCACCCCTTAGCAGCACTGTAAACA
GTTTCGTCTATTTGTGCTGGACCTCAATGACAATGCTCCAGCTGTGCTCCGTCTCGGGCCCGGCTGGTTCTCTTA
TGTCCTCCAAAGCACTGCCTCCATCAGTTGGTGCTGGCCACCTAATCACAAGGTGACTGCTGTGGACTTGGATTCA
GGTTACAATGCTTGGGTTTCTATCAGCTCCTGGAGGCCCGAGATCCAGCCTGTTTGCAGTCTCTCGATATGCT
GGGGAGGTGCGGACGGCTGTTCTATCCCAGCTGACCTCCACCACAGAAGCTGGTCATTGTGGTAAAGGATAGT
GGTAGTCCACCACTCTCTACCTCTGTTACTCTCTTAGTGCTCTTAGAGGAAGCACTCATCCAGTTGTCCAGAT
CTTCGAGAATCTTCAGCTCCAAGGGAAGGAGAATCTCGTCTAACCCTCTACTTGGCTGTGTCCCTAGTGGCAATT
TGCTTTGTCTCCTTTGGCTCATTGCTGGCACTACTCTCTAAGTGCTTCTGTTGGGCGAGCCTGTGGAGTCACATGC
TTTCTGCTGGCACCTGTGCTGTCTCACCAGATCTCGAAGGAGGGAGGGGCTTCCCCCTTCCAATGGGATCCTC
CGAATCCAGCTAGGGTCAGATGACCTATCAAGTTTGTGATGTGGGAGGCCACTCTCATGGCTGTACACCCCTTG
GCTTCTGCACCCACTCGGAGTGATAGCTTCATGATGGTGAAGTCACCCAGTGCACCTATGGCAGGGGAGCCTGTT
CGCCCAAGCTGCCCACCTCTGATCTTCTCTATGGGCTAGAGCAAGCCCGCCCAACACGGACTGGCGTTTCTCT
CAGGCCAGAGACCCGGCACCAGCGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGAC
ACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGT
GCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAAT
GTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGC
AATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCC
TCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCCTCAGAGTTTACAGGGCTAACCCCAAGAATACTGG
TAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGG
GGTTGAATATGCAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTT
ACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCAAATCAATCAG
GCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGT
GTTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCC
TTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATG
CTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGATTTAGGGAGGGCATTGTTGCTAC
CAAGCCTCTTCCCCAACGCCCTGGGGACAGTCTTCTGTTTGTGTTTTTTCATTGTTTGACGTTTCCACTGCATGCCT
TGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGG

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FIGURE 1766B

AAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGA
GGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTT
CCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCA
TTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCT
GGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCT
TAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCT
TCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGC
CACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAG
ACCTTCTTCTCCCACCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGC
CCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTT
ACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCGGCTG
TTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTT
CGCATAGTCACGTAGCTCCCACCCACCCTCTTCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGC
TTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1767

MLRKVRSWTEIWRWATLLFLFYHLGYVCGQIRYPVPEESQEGTFVGNVAQDFLLDSTDLSARRLQVAGEVNQRHF
RVDLD SGALLIKNPIDREALCGLSASCIVPLEFVTEGPLEMYRAEVEIVDVNDHAPRFPRQQLDLEIGEAAAPPGQ
RFPLEKAQDADVGSNSISSYRLSSNEHFALDVKKRSDGSLVPELLLEKPLDREKQSDYRLVLTAVDGGNPPRSGT
AELRVSVLDVNDNAPAFQQSSYRISVLESAPAGMVLIQLNASDPDLGPGSNVTFFYFSGHTPDRVRNLFSLHPTTG
KLTLGLPLDFESENYEFDVRARDGGSPAMEQHCSLRVDLLDVNDNAPYITVTSELGTLPEAEPTVVALISVQ
DPDSGSNGDVSLRIPDHLFPALKSAFRNQFSLVTAGPLDREAKSSYDIMVTASDAGNPPLSTHRTIFLNISDVND
NPPSFFQORSHEVFVPENNRPGDLLCSLAASDPDSGLNALISYSLLEPRNRDVSASSFISLNPQTGAVHATRSFDY
EQTQTLQFEVQARDRGNPPLSSTVTVRLFVLDLNDNAPAVLRPRARPGSLCPQALPPSVGAGHLITKVTAVDLDS
GYNWVSYQLLEAPDPSLFAVSRYAGEVRTAVPIPADLPPQKLVIIVVKDSGSPPLSTSVTLLVSLEEDTHPVVPD
LRESSAPREGESRLTLYLAVSLVAICFVSFGSFVALLSKCLRGAACGVTCFPAGTCACLTRSRREGLPPSNGIL
RIQLGSDDPIKFVDVGGHSHGCTPLASAPTRSDSFMMVKSPSAPMAGEPVRPSCPPSDILLYGLEQAPPNTDWRFS
QAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQN
VYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1768A

ATGGGGCCCCAAGACACTCCCACAGCTCGCTGGGAAATGGCAAGTGCTGTGCATGTTGTCCTTGTGCTGCTGGGGC
TGGGTGTCTGGGCAGCTTCGTTACTCAGTGGTGGAGGAGTCTGAGCCGGGGACGCTGGTGGGGAATGTTGCTCAG
GATCTGGGCTTAAAGATGACAGATCTGTTGAGCCGGCGGCTGCAATTGGGCTCTGAGGAGAATGGGCGCTATTTT
TCCCTGAGCTTGATGAGTGGTGCCCTGGCAGTGAATCAAAAGATTGACCGAGAAAGCCTATGTGGAGCCAGCACC
AGCTGCCCTGCTGCCAGTGCAGGTGGTGACTGAACACCCCCCTGGAGCTAATCCGTGTAGAGGTAGAGATCCTGGAT
CTCAATGACAACCTCTCCTAGCTTTGCCACCCCTGAGCGAGAGATGCGCATCTCAGAATCAGCAGCATCTGGGGCA
CGATTCCCACTGGACAGTGGCCAGGATCCGGATGTGGGCACCAATACTGTGAGCTTTTACACTCTAAGCCCCAAC
AGCCACTTCTCTCTGAATGTGAAGACCCTAAAAAGATGGGAAGCCATTCCCAGAGCTGGTGCTAGAGCAGCAGCTG
GATCGTGAAGCCCAGGCAAGACATCAGCTGGTGCTTACTGCTGTGGATGGGGGGACCCAGCCCGCTCAGGGACC
ACCTTATCTCTGTCTCGTGCTGGACATCAATGATAATGCTCCAACCTTCCAATCCTCAGTTCTACGTGTGGGA
ATCCCAGAGAATGCACCCATTGGTACTCTGCTGCTCCGCCCTCAATGCCACTGATCCAGACGAGGGCACCAACGGC
CAACTAGACTATTCTTTTGGAGACCACACATCTGAGGCAGTGCAGAACCTCTTTGGCCTAGACCCTAGCAGTGGG
GCAATCCATGTGTTGGGTCCCATAGACTTTGAGGAGTCACTTTCTATGAAATTCATGCAAGAGCCCGTGACCAG
GGACAGCCTGCCATGGAGGGCCACTGTGTGATTCAAGTGGATGTGGGGGATGTCAATGACAATGCCCCAGAGGTG
CTATTGGCCTCTTTGGCCAACCTGTCTAGAGAGCACACCAGTGGGCACAGTAGTGGGGTTGTTTAAATGTGCGA
GACCGGGACTCAGGTAGAAATGGTGAAGTGAGCCTTGATATCTCTCCGACCTGCCATTTTCAGATTAAGCCTTCT
GAGAACCCTACTCGCTGCTAACCAGCCAGCCTTTGGACCGGGAGGCCACATCCCACTATATCATCGAGCTGCTG
GCCAGCGATGCTGGTTACCTTTCCCTACACAAACATCTCACCATCAGGCTCAACATTTTCAGATGTCAATGACAAT
GCACCCCGCTTCAACCAGCAGCTTTACACTGCTTACATCCTAGAAAACCGGCCTCCGGGCTCCCTTCTTTGCACT
GTGGCTGCCTCAGATCCAGACACTGGGGATAATGCCCGCCTCACCTACTCCATTGTAGGAAATCAGGTTTCAGGGA
GCCCCAGCCTCCTCCTTTGTGTATGTCAACCCAGAGGATGGACGGATCTTTGCCAGCGTACCTTTGACTATGAA
TTGCTGCAGATGCTGCAGATTGTGGTGGGGGTTTCGAGACTCCGGCTCTCCCCATTGCATGCCAACACATCTCTG
CATGTGTTTGTCTAGACGAGAATGATAATGCCCCAGCTGTGCTGCACCCACGGCCAGACTGGGAACACTCAGCC
CCCCAGCGTCTCCCTCGCTCTGCTCCTCCTGGCTCCTTGGTCAACCAAGGTGACAGCCGTGGATGCTGATGCAGGC
CACAATGCGTGGCTCTCCTACTCACTGTTGCCACAGTCCACAGCCCCAGGACTGTTCTCTGCTGTCTACACACACT
GGTGAGGTGCGCACAGCCCGGGCCTTACTGGAGGATGACTCTGACACCCAGCAGGTGGTGGTCTGGTGGAGGGAC
AATGGTGACCCTTCACTCTCCTCCACAGCCACAGTGCTGCTGGTTCTGGAGGATGAGGACCCTGAGGAAATGCC
AAATCCAGTGACTTCTCCTACACACCCTCCTGAGCGTTCAGACCTTACCCTTTACCTCATTGTGGCTCTAGCGACC
GTCAGTCTCTTATCCCTAGTCACCTTACCTTTCTGTGACGGAAGTGCCTTCAGGGAAACGCAGACGGGGACGGG
GGTGGAGGGCAGTGCTGCAGGCGCCAGGACTCACCTCCCCGGACTTCTATAAGCAGTCCAGCCCCAACCTGCAG
GTGAGCTCGGACGGCACGCTCAAGTACATGGAGGTGACGCTGCGGCCACAGACTCGCAGAGCCACTGCTACAGG
ACGTGCTTTTACCGGCCTCGGACGGCAGTGACTTCACTTTTCTAAGACCCCTCAGCGTTTCAGCAGCCACAGCT
CTGGCGCTGGAGCCTGACGCCATCCGGTCCCGCTCTAATACGCTGCGGGAGCGGAGCCAGCAAGCCCCGCCAAC
ACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCCAGCGGCTCCCAAATGGCGATGACACCGGCACCTGG
CCCAACAACCAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGC
TCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTG
CCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGC
AAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCC
AAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGC
TAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCCAGTCAGCACCT
ACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACC
CATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCC
ATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCACTCCAACAGTTTCTCTTTCC
GAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCA
TGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTC
CAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGGTGGATTTA
GGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTATTGTTTGA
CGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTA

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FIGURE 1768B

TGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGT
TATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACC
TAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGAC
CAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGA
GGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTG
GGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTC
TCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCG
TTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCA
GTGCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCC
AGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGT
GTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATC
TGCCCGCGGCGGGCCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCT
CCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCCTGTGTCTCAGCAAGTTTTATA
CTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1769

MGPKTLPQLAGKWQVLCMLSLCCGWVSGQLRYSVVEESEPGTLVGNVAQDLGLKMTDLLSRRLQLGSEENGRYF
SLSLMSGALAVNQKIDRESLCGASTSCLLPVQVVTEHPLELIRVEVEILDNDNSPSFATPEREMRISESAASGA
RFPLDSAQDPDVGINTVVSFYTLSPNSHFSLNVKTLKDGKPFPELVLEQQLDREAQARHQLVLTAVDGGTPARSGT
TLISVIVLDINDNAPTFQSSVLRVGIPENAPIGTLLRLRNATDPDEGTNGQLDYSFGDHTSEAVRNLFGLDPSSG
AIHVLGPIDFEESRFYEIHARARDQGPAMEGHCVIQVDVGDVNDNAPEVLLASLANPVLESTPVGTVVGLFNVR
DRDSGRNGEVSLDISPDLPFQIKPSENHYSLLTSQPLDREATSHYIIELLASDAGSPSLHKHLTIRLNISDVNDN
APRFNQQLYTAYILENRPPGSLCTVAASDPDTGDNARLTYSIVGNQVQGAPASSFVYVNPEDGRIFAQRTFDYE
LLQMLQIVVGVRDSGSPPLHANTSLHVFVLDENDNAPAVLHPRPDWEHSAPQRLPRSAPPGSLVTKVTAVDADAG
HNAWLSYSLLPQSTAPGLFLVSTHTGEVRTARALLEDDSDTQQVVVLVRDNGDPSSLSTATVLLVLEDEDPEEMP
KSSDFLIHPPERSDLTLYLIVALATVSLLSLVFTTFLSAKCLQGNADGDGGGGQCCRRQDSPSPDFYKQSSPNLQ
VSSDGLKYMVTLRPTDSQSHCYRTCFSASDGSDFTFLRPLSVQQPTALALEPDAIRSRNTLRERSQQAPPN
TDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHV
PDYRQNVYIPGSNATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1770A

TTCATCTGTACCTTTCAAGTATTCAAATAGAAAAATATAAACAATGTAAATAAAATAGCAAAACAATGTAATATC
TCATAAAACTGCAATGGTAAAAGCATTATCCTATTGAAATTCCACAATTTTTATTGAAAATATTATCGACATG
TAATTCAAGTGGCATTTAGAAGAATAATTTAAAAGCAACAACCTCTATAGAAAGCTTGTAATGATTAAGTAGTT
TAAACCAAATAAAACAATTTCTGAGTCAGTCATCTCCAGTAGGTCTATTTTAGTCTCAAGATAAATTCATTTCTG
GTGACAACCTGAAGTTCTTAGTTATTTGTTAGTATATATTGGAGACATTTACAATAAAGCTTAGAGCACAATGGGA
AATGAAAGTATCATGTTTTTTTTTAAGACCAAATGTATTGCAGAAATGTGAGTAATTTAATCCGATGCTACAATCT
GATCATTCTGATCTAATCTGATCATTTAATAACACTAAATAAAACCTTCATCTCACATTCTTTGGCTGTTTCTTT
TAAAATATGGGTTTACGGATAAATCAAATAAATTCAAAACAAAGTAATAAGCAAATGATTTTTTTTTTCTCAGTAA
TCTAGTAGAGTATTACATTTAGAAGTAATCTGTATCTCAGTGCAGTAACTATTTAGGACTGTAAGCGCCGCTGTT
CACCTACTGGAAGACAAATGCAACCGAAAACACTCAGATCTCACACCTCACGAAGACCCGCAGATGCCACAACT
AACTGCTGGACTGCAGCGAAACCCGACCCCTGTTTGGAGGCACTCCAGGTTTCCGGAGGATTGTCATCTCCATAG
CTGCGGCAAGAACTAAATAAGACCCATTTATGCACAGTGAAGATTCTGAGAGGATTCTGCAGCAAAACAACAT
GGCCGCTCCACAGAGTCGCCCCAGACGCGCGAGCTGATCCTGCTGTGCGCGCTGCTGGGAACGCTGTGGGAAAT
CGGGAGGGGACAGATTTCGCTACTCTGTGCCAGAAGAGACGGACAAAGGCTCCTTCGTGGGTAATATCTCCAAGGA
CCTGGGGCTGGACCCCGGAAGCTGGCGAAGCACGGAGTCCGTATCGTCTCCAGAGGTAGGACGCAGCTCTTTGC
TCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGATAGATCGGGAGGAGCTCTGCGCTCAGAGCCCGCG
GTGTCTGATAAATATTAACACCCTGGTTGAGGATAAAGGAAAACCTCTTTGGGGTAGAAATAGAAATAATTGATAT
TAACGATAATAACCCAAAATTCAGGTGGAAGATCTAGAAGTAAAAATTAACGAAATCGCGTTCTTGAGGCAGC
TTATCCACTCCCAGAAGCTGTTGACCCGGATGTGGGCGTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCCAATCA
CCACTTCTCCCTGGACGTGCAGACTGGAGACAATGGAGCCATAAACCAGAGCTGGTGTGAGCGCGCCCTGGA
CAGGGAGGAAGAGGCTGCTCACACCTGGTCCTCACGGCCTCGGATGGCGGCAAGCCGCTCGCTCTAGCACAGT
GCGCATCCACGTGACAGTGTGGATACAAATGACAATGCCCCGGTTTTCTCACCAGATTACCGAGTGAAAGT
CCTTGAGAACATGCCCCAGGCACGCGGCTGCTTACTGTAACAGCCAGCGACCCGGATGAGGGAATCAACGGAAA
AGTGGCATACAAATTCGGGAAAATTAATGAAAAACAACTCCGTTATTCCAGCTTAATGAAAATACTGGGGAAAT
ATCAATAGCAAAAAGTCTAGATTATGAAGAATGTTCAATTTTATGAAATGGAATACAAGCCGAAGATGTGGGGGC
ACTTCTGGGGAGGACCAAATGCTCATTTCGGTGAAGATGTAAATGACAATAGACCAGAAGTGATCATTACGTC
TTTGTTTAGCCAGTGTTAGAAAATTCTCTTCCCGGACAGTAATTGCCTTCTTGAGTGTGCATGACCAAGACTC
TGGAAGAATGGTCAAGTTGTCTGTTACACACGTGATAATTTACCTTTTAAATTAGAAAAGTCAATAGGTAATTA
TTATAGATTAGTGACAAGGAAATATTTGGACCGAGAAAATGTCTCTATCTACAATATCACAGTGATGGCCTCAGA
TCTAGGAACACCACCTCTGTCCACTGAAACTCAAATCGCTCTGCACGTGGCAGACATTAACGACAACCCTCCTAC
TTTCCCTCATGCCTCCTACTCAGCGTATATCCTAGAGAACAACCTGAGAGGAGCCTCCATCTTTTCTTGACTGC
ACACGACCCCGACAGCCAGGAGAATGCCAGGTCACTTACTCTGTGACCGAGGACACGCTGCAGGGGGCGCCCT
GTCTCTGATATCTCCATCAACTCTGACACCGGTGTCTGTATGCGCTGCAATCTTTCGACTATGAGCAGATCCG
AGACCTGCAGCTACTGGTAACAGCCAGCGACAGCGGGGACCCGCCCTCAGCAGCAACATGTCACTGAGCCTGTT
CGTGCTGGACCAGAATGACAACGCGCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTGGA
GCTGGCGCCCCGCTCCGCAGAGCGTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAGAA
CGCCTGGCTGTCTACCGCTGTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAGGT
GCGCACGGCGCGAGCCCTGCTGGACAGAGATGCGCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCATGGCCA
GCCCCCTCTCTCCGCCACTGTACGCTCACCGTAGCCGTGGCTGACAGCATCCCCGAAGTCTTGACCGAGTTGGG
CAGTCTGAAGCCTTCGGTCGACCCGAACGATTGAGCCTTACACTCTATCTCGTGGTGGCAGTGGCTGCCATCTC
CTGTGTCTTCTCGCCTTTGTGCTGTGCTTCTGGGGCTCAGGCTGAGGCGCTGGCACAAGTCACGCCTGCTCCA
GGATTCCGGTGGCAGATTGGTAGGCGTGCCTGCCTCACATTTTGTGGGTGTTGAGGAGGTACAGGCTTTCTGCA
GACCTATTCCCAGGAAGTCTCCCTCACCGCCGACTCGCGGAAGAGTCACCTGATCTTCCCCAGCCCACTACGC
AGACATGCTCATCAGTCAGGAGGGCTGTGAGAAAAATGATTCTTTGTTAACATCCGTAGATTTTCATGAATATAA
GAATGAAGCTGATCATGGTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCAC
CAGCGGCTCCAAAATGGCGATGACACCGGCACCTGGCCCCAACACAGTTTGACACAGAGATGCTGCAAGCCAT
GATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGCCGGCACCATGGGATTGAG
CGCCGCTACGGACCCAGTTCACCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAA

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FIGURE 1770B

TGCCCACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTC
GGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCCAGCT
TCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGGCCAAGGCCATGCTC
CCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAG
TTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCA
TTTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCCATCCATCCCATGCCTC
CCTCCTCCCCACCCCACTCCAACAGTTCCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCT
ACAAGCCTCCTAGTTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
CAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCAGAGCCCCAAGATCAATGCTCAAGTTTTGGAGGACATG
ATCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCC
TGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCC
TCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTG
GATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCCTTGAGGAGGCTCTGTATGTCCTCAGGG
GACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTCCCACTACATAATAGGGCTC
AGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCG
AAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCAC
TGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGG
CAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCC
CTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTG
CGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCTCCTTGTGCATAGACCTTCTTCTCCCACCCCT
TCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCC
CCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGTGGGCAG
CGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCC
ACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCC
ACCCACCCCTCTTCTGTGCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAA
ATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1771

MAAPQSRPRRGELIILLCALLGTLWEIGRGQIRYSVPEETDKGSFVGNISKDLGLDPRKLAKHGVRIVSRGRTQLF
ALNPRSGSLITAGRIDREELCAQSPRCLININTLVEDKGKLFGEIEIIDINDNNPKFQVEDLEVKINEIAVPGA
RYPLPEAVDPDVGVNSLQSYQLSPNHHFSLDVQTDNGAINPELVLERALDREEEAAHHLVLTASDGGKPPRSST
VRIHVTVLDTNDNAPVFPHPYIRVKVLENMPPGTRLLTVTASDPDEGINGKVAYKFRKINEKQTPLFQLNENTGE
ISIAKSLDYEECSFYEMEIQAEDVGALLGRTKLLISVEDVNDNRPEVIITSLSFSPVLENSLPGTVIAFLSVHDQD
SGKNGQVVCYTRDNLFPFKLEKSIGNYYRLVTRKYLDRENVSIYNITVMASDLGTPPLSTETQIALHVADINDNPP
TFPHASYSAYILENNLRGASIFSLTAHDPDSQENAQVTYSVTEDTLQGAPLSSYISINSDTGVLALQSFQDYEQI
RDLQLLVTASDSGDPPLSSNMSLSLFLVDQNDNAPEILYPALPTDGSTGVELAPRSAERGYLVTKVAVDRDSGQ
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLTEL
GSLKPSVDPNDSSLTLYLVVAVAAISCVFLAFVAVLLGLRLRRWHKSRLQLQDSGGRLVGVPASHFVGVEEVQAFL
QTYSQEVSLTADSRKSHLIFPQPNYADMLISQEGCEKNDSLLTSVDFHEYKNEADHGQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGS
NATLTNAAGKRDKAPAGGNGNKKKSGKKEKK

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FIGURE 1772A

AGAATGGGCTCTAGGCGCCGCTGCTCACCAATCAGGGAATGGGAAGCTGCGCGCCATTGAGTCCCTCCCTCCCC
GCCTCTACCACACAAAGCGGAATGAGATGGATACTCACAGATCCTGACACTGGAGACTTAGAAGTATTTTCCTTC
GCTTCTGATATATTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTACACAACCAACCAGCTC
GAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGCGGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTG
CTGCTGCTGTGCATTTTCCTGGGGACGCTGCGGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAG
ACCGAAAAGGGCTCCTTCGTGGGCAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGA
GTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGC
AGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCTGTTTTTAAATATGGAACCTCTCGTGGAAGACACC
TTGAAGATTTACGGAGTGGAGGTGGAAATAATAGATATTAATGATAACGCCCCAGCTTCAGGAGGACGAAGTG
GAGATAAAAGTCAGTGAGCACGCAATTCCTGGGGCGCGATTTGCTCTTCCTAATGCTAGGGATCCAGATGTGGGC
GTGAACTCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCCTTGCAACTGCGGGGCAGAACGGATGGG
GCCAAGAATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCCTCACA
GCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCCATTCGTGTGGTGGTCTCTCGATGTAAATGATCAC
ATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTTCCAGAAAACATCAGCTCCGGAACCTCGGGTGCTGATG
GTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGAAGTAATGTATTCAATTCGGAACATGGAAGCAAGGCT
TCTGAAATATTCCAATTGGATTACAAACTGGAGAAGTCAAGTACGGGGTCTCTGGATTTTGAAAAATATAGA
TTCTATGAGATGGAATTCAGGCCAAGATGGTGGAGGTCTCTTTACCACCACGACGATGTTGATCACTGTTGTG
GATGTGAATGATAACGCTCCAGAAATAACTATCACCTCTTCTATTAAATCAATTCTGGAAAACCTCTCCTCCAGGT
ACAGTGATTGCTCTTCTAAATGTGCAAGATCAAGATTCTGGAGAAAATGGTCAAGTCTCCTGTTTTATTCTAAC
CACCTGCCTTTTAAATTAGAAAAGACTTATGAAAATTATTACAAATTGATAACAAGCAGAGTGCTGGACAGGGAG
TTGGTCCAGAGCTACAATATAACGTTGACAGCCACAGACCAGGGAAGCCCGCCTTTGTCTGCAGAACTCATGTC
TGGCTGAATGTGGCAGATGACAACGATAACCCTCCCGTTTTTCTCACTCCTCTTACTCTGCCTACATTCCCGAA
AACAAACCCAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCGGACAGCAAACAGAATGCCCTGGTCACT
TACTCTCTGACGGATGACACTGTCCAGGGGTGCCTCTGTCTCCTATGTCTCTATTAACCTCCAACACTGGTGT
CTCTATGCCCTACAATCCTTCGACTATGAGCAGTTTCGAGACTTAGAACTGAGAGTGATAGCACGTGACAGCGGG
GACCCGCCCTCAGCAGCAACGTGTGCTGAGCCTGTTCTGTCTGGACCAGAACGACAATGCGCCCGAGATCCTG
TACCCTGCCCTCCCCACAGACGGCTCCACTGGCGTGGAGCTGGCGCCCCGCTCTGCGGAACCTGGCTACCTGGTG
ACCAAGGTGGTTGCGGTGGACAAAGATTCAGGCCAGAACGCTGGCTGTCTATCGCTGCTTAAGGCCAGCGAG
CCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGCAAGCCCGCCCAACACGGAAGTGGCGTTTCTCTCAGGCC
CAGAGACCCGGCACCAGCGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAG
ATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGC
ACCATGGGATTGAGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTAC
ATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGC
AACAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCC
CAACCAGCCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTGGTAGGGG
CCAAGGCCATGCTCCCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGA
ATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTA
GACACCAAGAACCATTGCCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCAT
CCATCCCATGCCTCCCTCCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAA
GTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGCCCTCTCCTTTGAT
TCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAG
TTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCC
TCTTCCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTT
CCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGA
AGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGAGGAGGCTCT
GTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACAATAACTAGGCTGGACCCCTTCCCACT
ACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAG
TCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCTTGAGAGGTGAGAGGGCCTCTGTGGGTGCTGGGTAC

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FIGURE 1772B

TCCAGAGGTGCCACTGGTGGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCC
CTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCA
ACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGC
CCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTC
TTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTAC
AGTAGTGTAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGA
TGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGT
TTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTTCTCCTATAAGCGCTTCTCTTCGCATA
GTCACGTAGCTCCCACCCACCTCTTCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTT
TCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1773

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSRGKTQL
FAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGVEVEIIDINDNAPSFQEDEVEIKVSEHAIPG
ARFALPNARDPDVGVNSLQSYQLSPNNYFSLQLRGRTDGAKNPELVLEGLDREKEAAHLLLLTALDGGDP IRKG
AVPIRVVLDVNDHIPMFTQSVYRVSVPENISSGTRVLMVNATDPDEGINGEVMYSFRNMESKASEIFQLDSQTG
EVQVRGSLDFEKYRFYEMEIQQQDGGGLFTTTTMLITVVDVNDNAPEITITSSINSILENSPPGTVIALLNVDQDQ
DSGENGVSCFIPNHLFPKLEKTYGNYYKLITSRVLDRELVSYNITLTATDQSPPLSAETHVWLNVDNDNP
PVFPHSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTYSLTDDTVQGVPLSSYVSINSNTGVLYALQSFDYEQ
FRDLELRVIARDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVDKDSG
QNAWLSYRLKASEPGLFAVGEHTGEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASAS
EAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1774

CAGAAAGCCATGTCGGACTCGGCGCCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGAGTGAGATGGTCCCAGAGGCCTGGAGGAGCGGACTGCAAGC
CCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACAC
CGGCACCTGGCCCAACAACCAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGC
TGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCT
GCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAA
GCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAGTCGGGCAAGAAGGAGAAGAAGTAACATGG
AGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGA
GTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCCCA
GTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAA
CTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCT
GAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTT
CCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGG
AAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCCCTT
CACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTT
GCTGGATTTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTT
CATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTT
CAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGA
CACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGC
CATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAG
CTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCTG
AGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGGAAGGGTCAGCGGAGCCCCAGC
AGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAATGA
ACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCTTACCTTG
CCAGGTGCCGTTTTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTA
AAGTTCCCCAGTGCTCCTTGTGCATAGACCTTCTTCTCCACCCCTTCTGCCCTGGGTCCCCGGCCATCCAG
CGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCTCTTTTCGGCTGGTGTAGAAT
AGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCT
GTCCTTGATCTGCCGCGGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGT
ACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCTCTTCTGTGTCTCACGC
AAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCT
G

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FIGURE 1775

MVPEAWRSGLQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTM
GLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1776

CAGAAAGCCATGTCGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGAGTGAGATGGTCCCAGAGGCCTGGAGGAGCGGACTGGTAAG
CACCGGGAGGGTAGTGGGAGTTTTGCTTCTGCTTGGTGCCTTGAACAAGGCTTCCACGGTCATTCACTATGAGAT
CCCGGAGGAAAGAGAGAAGGGTTTCGCTGTGGGCAACGTGGTTCGCGAACCTTGGTTTGGATCTCGGTAGCCTCTC
AGCCCGCAGGTTCCGGGTGGTGTCTGGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTT
TGTGAACGACCGTCTGGATCGAGAGGAGCTGTGTGGGACACTGCCCTCTTGCACTGTAACCTCTGGAGTTGGTAGT
GGAGAACCCGCTGGAGCTGTTTCAAGCTGGAAGTGGTGATCCAGGACATCAACGACAACAATCCTGCTTTCCCTAC
CCAGGAAATGAAATTGGAGATTAGCGAGGCGCTGGCTCCGGGGACGCGCTTTCCGCTCGAGAGCGCGCACGATCC
CGATGTGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCGAGAACGGGAGCCTAGTCTCCAGTT
AGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCTCCGCCAGCCTGCCTATTACATCAAGGTGCTGGACGC
GAATGACAATGCGCCTGTCTTCAACCAGTCCTTGTACCGGGCGCGCTCCTGGAGGATGCACCCTCCGGCACGCG
CGTGGTACAAGTCTTGAACGGATCTGGATGAAGGCCCAACGGTGAAATTATTTACTCCTTCGGCAGCCACAA
CCGCGCCGGCGTGCAGCAACTATTGCGCTTAGACCTTGTAAACGGGATGCTGACAATCAAGGGTCGGCTGGACTT
CGAGGACACCAAACTCCATGAGATTTACATCCAGGCCAAAGACAAGGGCGCCAATCCCGAAGGAGCACATTGCAA
AGTGTGGTGGAGGTTGTGGATGTGAATGACAACGCCCCGAGATCACAGTCACCTCCGTGTACAGCCAGTACC
CGAGGATGCCCTCTGGGACTGTATCGCTTTGCTCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGT
GACCTGCGAAGTTCCACCGGTCTCCCTTTAGCCTTACTTCTTCCCTCAAGAATTACTTCACTTTGAAAACCAG
TGCAGACCTGGATCGGGAGACTGTGCCAGAATACAACCTCAGCATCACGCCCCGAGACGCCGGAACCCCTTCCCT
CTCAGCCCTTACAATAGTGCCTGTTCAAGTGTCCGACATCAATGACAACCCTCCACAATCTTCTCAATCTTCCTA
CGACGTTTACATTGAAGAAAACAACCTCCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGGACCCCGACGCCCC
GCAGAATGCTCGGCTTTCTTTCTTCTTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGGTGCTATTTTACAAT
AAATCGTGACAATGGCATAGTGTATCCTTAGTGCCCTTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGGACCCCGGTCTAGCCACCAACATCAGCGTGAACATATTTGTCACTGATCGCAATGA
CAATGCCCCCAGGTCTATATCCTCGGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTACCTCAGCTGG
CCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAAATGCCTGGCTCTCCTACAGTCTCTTGGG
ATCCCCTAACAGAGCCTTTTTGCCATAGGGCTGCACACTGGTCAAATCAGTACTGCCCGTCCAGTCCAAGACAC
AGATTCACCCAGGCAGACTCTCACGGTCTTGATCAAAGACAATGGGGAGCCTTCGCTCTCCACCACTGCTACCCCT
CACTGTGTACAGTAACCGAGGACTCTCCTGAAGCCCCGAGCCGAGTTCCCCTCTGGCTCTGCCCCCGGGAGCAGAA
AAAAATCTCACCTTTTATCTACTTCTTTCTCTAATCCTGGTTTCTGTGGGGTTTGTGGTACAGTGTTTCGGAGT
AATCATATTCAAAGTTTACAAGTGGAAAGCAGTCTAGAGACCTATACCGAGCCCCGGTGAGCTCACTGTACCGAAC
ACCAGGGCCCTCCTTGCACGCGGACGCCGTGCGGGGAGGCCTGATGTCGCCGACCTTTACCATCAGGTGTATCT
CACCACGGAATCCCGCCGACGCGACCCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGCCAGAA
CACGCTGCGGAGCTGTGATCCGGTGTCTATAGGCAGGTGTTGGGTGCAGAGAGCGCCCTCCCGGACAGGTAAAG
GTTTAGCAAGTCATGCTTGACCTGTAGTGCTTTTTTATTCTACATCATATTGAGGAAGGAATGGAGCTGTTT
TTTTAGTGATGAAGATGTTTTCTGGTGATGCATTCACACTTTCAACTGGCCCTTCTAGATCAAAGTTAGTGCC
TTTGTGAGATGGTGGCTGCCAGAGTGTGGTTTGTGGTCCCATTTCAGGGGAAGATACTTGACTCATCTGTGGA
CCTAATTCACATCCTCAGC

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FIGURE 1777

MVPEAWRSGLVSTGRVVGVLGALNKASTVIHYEIPEREKGFVGNVAVNLGLDLGSLARRFRVVSASRR
FFEVRNRETGEMFVNDRLDREELCGTLPSCVTLELVVENPLELFSVEVVIQDINDNNPAFPTQEMKLEISEAVAP
GTRFPLESAHDPDVGNSLQTYELSRNEYFALRVQTTREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALS
ASLP IHIKVL DANDNAPVFNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV
TGMLTIKGRDLDFEDTKLHEIYIQAKDKGANPEGACHCKVLVEVVDVNDNAPEITVTSVYSPVPEDAPLGTVIALLS
VTDL DAGEGLVTCEVPPGLPFSLTSSLKNYFTLKT SADLDRETVP EYNLSITARDAGTPSL SALTIVRVQVSDI
NDNPPQSSQSSYDVYIEENNLP GAPI LNLSVWDPDAPQ NARLSFFLLEQGAETGLVGRYFTINRDNGIVSSLVPL
DYEDRREFELTAHISDGGTPVLATNISVNIFVTDNRNDNAPQVLYPRPGGSSVEMLP RGT SAGHLVSRVVGWDADA
GHNAWLSYSLGSPNQSLFAIGLHTGQISTARPVQD TDS PRQTLTVLIKDN GEP SLSTTATLTVSVTEDSPEARA
EFPSGSAPREQKNLTFYLLLSLILVSVGFVTVFGV IIFKVYKWKQSRDL YRAPVSSLYRTPGPSLHADAVRGG
LMSPHLYHQVYLTTDSRRSDPLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQVRFSK SCLTLLVLFY
SYIILRKEWSCFFSDEDVFLVMHSHFQLALPRSKLVPL

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FIGURE 1778

CCTCAGTTTCCTTGTTTGTAATAAGTTGAACTAAATCTTGACCCTTTAATGCTTGTTTTGAAATCCAAGGCAAA
AAACAATTGCAAGCGCCCTTACTTCCGTGTTGCTTCATACTCCTCTTGCGCTGCGCTGTCTCCTTGAGCAGAG
GCGGGGCCAACAAGCCTGTTTTAGAAACCCCTCCAGTCCTTAGCTCGTTTAGAACACAAGACTCCAAGCTTATTGG
AGGGCTATCTTGCCCTTACGGCTCCAAGCCGCTTTTTACGGCGTTTTTCAGCTCGCCATTCACTTCGCTGTGAAGA
TGGCGTCGGGCAGCGGGGTAGGTGTTGTGTCTGAGGAGGAGGTTTTGCGGGGTGGGGAATGGTTTTTCAGACCTG
AATAGAGACAAACTCCTGCACCCGACTGGCTTCCCGATATCTCCTCGAGATCCCAGGGTTCAGGTTCAAGAACTC
CCCAGTAATAGGCCTTGGCAGAGGGTCAGTAGAATCGCGGAGGTTTTCTCGGGTTGGGGTCTTGAGGCTACCTCAG
TCTTCTCGTACAGTCCAAAGAGGCTTCGCTTTCAAAACGTCCTGTAGACACCTGGACCGCGAGGGCGCGGTTCCC
TGCTTCTCTAGGGGCCCAGACACGGCGACGGATCTTGACGCTTTTTCTCCCCACAGACAAAAAACTTGGAATTT
CGCCGAAAGTGGGACAAAGATGAATATGAGAACTCGCCGAGAAGAGGCTCACGGAAGAGAGAGAAAAAGAAAT
GGAAAACCAAGTGCAGCCTGTCAAGCGAGAGCTTTTACGGCATAGGGACTACAAGGTGGACTTGGAATCCAAGCTT
GGGAAGACAATTGTCATTACCAAGACAACCC

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FIGURE 1779

TCGATAGCCGGAAGTCATCCTTGCTGAGGCTGGGGCAACCACCGCAGGTCGAGACAGCAGGCGGCTCAAGTGGAC
AGCCGGGATGGCAGAGCGTGCGGCGCTGGAGGAGCTGGTGAACTTCAGGGAGAGCGCGTGCGAGGCCCTCAAGCA
GCAGAAGGCCAGCGCCGAGCTGATCGAGGAGGAGGTGGCGAACTCCTGAACTGAAGGCACAGCTGGGTCCTGA
TGAAAGCAAACAGAAATTTGTGCTCAAACCCCCAAGGGCACAAAGAGACTATAGTCCCCGGCAGATGGCAGTTG
CGAGAAGGTGTTTGACGTAATCATCCGTTGCTTCAAGCGCCACGGTGCAGAAGTCATTGATACACCTGTATTG
ACTAAAGGAAACACTGATGGGAAAGTATGGGGAAGACTCCAAGCTTATCTATGACCTGAAGGACCAGGGCGGGGA
GCTCCTGTCCCTTCGCTATGACCTCACTGTTTCCTTTTGCTCGGTATTTGGCAATGAATAAACTGACCAACATTAA
ACGCTACCACATAGCAAAGGTATATCGGCGGGATAACCCAGCCATGACCCGTGGCCGATACCGGGAATTCTACCA
GTGTGATTTTGACATTGCTGGGAACTTTGATCCCATGATCCCTGATGCAGAGTGCCTGAAGATCATGTGCGAGAT
CCTGAGTTCACTTCAGATAGGCGACTTCCTGGTCAAGGTAAACGATCGACGCATTCTAGATGGGATGTTTGCTAT
CTGTGGTGTCTTGACAGCAAGTTCGCTACCATCTGCTCCTCAGTAGACAAGCTGGACAAGGTGTCTGGGAAGA
GGTGAAGAATGAGATGGTGGGAGAGAAGGGCCTTGACCTGAGGTGGCTGACCGCATTGGGGACTATGTCCAGCA
ACATGGTGGGGTATCCCTGGTGGAACAGCTGCTCCAGGATCCTAACTATCCCAAACAAGCAGGCCTTGGAGGG
CCTGGGAGACCTGAAGTTGCTCTTTGAGTACCTGACCCTATTTGGCATTGATGACAAAATCTCCTTTGACCTGAG
CCTTGCTCGAGGGCTGGATTACTACACTGGGGTGATCTATGAGGCAGTGTGCTACAGACCCAGCCAGGCAGG
GGAAGAGCCCCCTGGGTGTGGGCAGTGTGGCTGCTGGAGGACGCTATGATGGGCTAGTGGGCATGTTGACCCCAA
AGGGCGCAAGGTGCCATGTGTGGGGCTCAGCATTGGGGTGGAGCGGATTTTCTCCATCGTGGAACAGAGACTAGA
GGCTTTGGAGGAGAAGATACGGACCACGGAGACACAGGTGCTTGTGGCATCTGCACAGAAGAAGCTGCTAGAGGA
AAGACTAAAGCTTGTCTCAGAACTGTGGGATGCTGGGATCAAGGCTGAGCTGCTGTACAAGAAGAACCCAAAGCT
ACTGAACCAGTTACAGTACTGTGAGGAGGCAGGCATCCCACTGGTGGCTATCATCGGCGAGCAGGAACCTCAAGGA
TGGGGTCATCAAGCTCCGTTCACTGACGAGCAGGGAAGAGGTGGATGTCCGAAGAGAAGACCTTGTGGAGGAAAT
CAAAGGAGAACAGGCCAGCCCCCTGTCATCTGCTGAACTGAACAACTATCAGAGGAAAGGAAGTGGGACTGGC
ACTATTTGAGGTTAAGACAACTGCATATGTACTTCAATTGCTTTGCACTTTTCGTTTCAGCGGAAGACCTGAA
GAGTGGTCAGAACAGAGCCTTTGATTTTATTATGGTTATTTTATTGATTATTACTGGCAAAAACGGCCAGGTAC
AACACCTTTTTTCATACAAGGCCAGGAGGCTTAGTCCAGTCTGTGCTCCTGGGCTACAAGGACCCAGCCTGAGAT
GGTCCCATCTGCAGGGCCCCGCACAGTTGGAGCAGATGCCTCCCCACCACCAATTGCCAAAGGTCCAATAAAAT
GCCTCAACCACGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1780

MAERAAL EELVKLQGERVRGLKQQKASAELIEEEVAKLLKLKAQLGPDESKQKFVLKTPKGTRDYSPRQMAVREK
VFDVIIRCFKRHGAVIDTPVFELKETLMGKYGEDSKLIYDLKDQGGELLSLRYDLTVPFARYLAMNKLITNIKRY
HIAKVYRRDNPAMTRGRYREFYQCDFDIAGNFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICG
VSDSKFERTICSSVDKLDKVSWEVKNEMVGEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDPKLSQNKQALEGLG
DLKLLFEYLTTFGIDDKISFDLSLARGLDYYTGVIYEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMFDPKGR
KVPCVGLSIGVERIFSIVEQRLEALEEKIRTTETQVLVASAQKKLLEERLKLVSSELWDAGIKAELLYKKNPKLLN
QLQYCEEAGIPLVAIIGEQLKDGVIKLSVTSREEVDVRREDLVEEIKRRTGQPLCIC

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FIGURE 1781

ACGCAAAGCAGTGTGGGTTGATTCTGAGGTGCACTGTGGGAAAGAGCTTGTGCTGCGGTGTTGCTGTTGGAGAC
TCGATTGTTGGTGACAGCGAAAGAACGATAACAAAATGCCGGAGCGAGATAGTGAGCCGTTCTCCAACCCTTTGG
CCCCGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACTCACCAATGAAGACTTCAGGAAAC
TTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGCCAAGGGAGT
ACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCCAAGCTACGCCAACAAAGAAA
TTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGATCGTGCCAAGGAACGGAGAGATGGAGTGAACAAAGATT
ATGAAGAAACCGAGCTTATCAGCACCACAGCTAACTATAGGGCTGTTGGCCCCACTGCTGAGGCGGACAAATCAG
CTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCCATTTGGTGA
AAGGCTTGGATTTTGCTCTGCTTCAAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAGAGGAAGTGA
TGGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAAACACGTCTGGGCC
GCAATGTTTACCGAATGCTTTTTAAGAGCAAAGCATATGAGCGGAATGAGTTGTTTCTGCGGGCCGCATGGCCT
ATGTGTTAGACCTGGATGATGAGTATGCTGACACAGATATCCCCACCACTCTTATCCGCAGCAAGGCTGATTGCC
CCACCATGGAGGCCAGACCACACTGACCACAAATGACATTGTCATTAGCAAGCTGACCCAGATCCTTTTCATACC
TGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACCTCCTGAGG
CTGACATGAATATTTTGAAGACATTGGGGATTACGTACCCTCCACAACCAAGACACCTCGGGACAAGGAGCGGG
AGAGATATCGGGAACGGGAGCGTGATCGGGAAAGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGAGATC
GGGAACGAGAGCGAGAGCGGGACCGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCAAAAG
TAGATGATGAGCCCATGGACGTTGACAAAGGACCTGGGTCTACCAAGGAGTTGATCAAGTCCATCAATGAAAAGT
TTGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAGAAGCCAGAAGACAAAAGCAGCTGGGAGATTTCT
TTGGCATGTCCAACAGTTATGCAGAGTGCTACCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAGGAGG
TGGATTATAGCAAAATGGACCAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACCCAGGAAGAAT
ACAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAAGGGC
GGAAAACCGGCGCTTCAAGGAAACCAATGACAAAGCAGAGCTTGATCGCCAGTGGAAGAAGATTAGTGCAATCA
TTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAAGACCAAAATACTAA

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FIGURE 1782

MPERDSEPF SNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPT SAPP SKSRHHEMPREYNEDEDPAARRR
KKKSY YAKLRQQEIERERELAEKYRDRAKERRDGVNKDYETELISTTANYRAVGPTAEADKSAAEKRRQLIQES
KFLGGMEH THLVKGLDFALLQKVRAEIASKEKEEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRMLFKSKA
YERNELFLPGRMAYVVDLDDEYADTDIPTTLIRSKADCPTMEAQTTLTNDIVISKLTQILSYLRQGTRNKKLKK
KDKGKLEEKPPPEADMNIFEDIGDYVPSTTKTPRDKERERYRERERDRERDRDRDRERERERDRERERERDRERE
EEKKRHSYFEKPKVDDEPMDVDKGP GSTKELIKS INEKFAGSAGWEGTESLKKPEDKKQLGDFFGMSNSYAECYP
ATMDDMAVDSDEEVDYSKMDQGNKKGPLGRWDFDTQEEYSEYMNNKEALPKAAFQYGIKMSEGRKTRRFKETNDK
AELDRQWKKISAIIEKRKKMEADGVEVKRPKY

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FIGURE 1783

GTGACCCAGGCCCTGGTCACTCCATGCTTTGGAGGGTGCTTTTGTCAAAGAGGCCTCCTTTCCCTCACCCAGAG
CTGGATTTCCAAGAGGCTCCCATACCTAGCTGCCCTGGCAGACTCCCAGGGAGGAAAAACAGCGTGGCCTTGGCA
GCTGCCCCGAGGAAGGAGCCACAGGTGACAGGGAGAAGCCATTGCCATTCCCTGTCTGGCCCCCTTCAGCAAC
CCTGAACACTCTGCTCCAGCCAAGGTGGTGAGGGCAGCTGTTCTTAAACAGCGCAAAGGCAGCAAGGTTGGTGAC
TTTGGAGATGCAATCAATTGGCCACACCTGGAGAGATAGCCACAAGAGTGTTTCCAGCCACAGTCCCACAAGCCT
CAGCCTACCCGTAAACTGCCACCCAAGAAGGACATGAAGGAACAGGAGAAAGGAGAAGGGAGTGATAGTAAGGAG
AGTCCAAAAACCAATCAGATGAATCAGGGGAGGAAAAGAATGGAGATGAGGATTGCCAGCGAGGCGGGCAGAAG
AAGAAAGGAAACAAACACAAGTGGGTTCCATTACAAATAGACATGAAGCCTGAAGTGCCAGAGAGAAACTGGCT
TCACGCCCCACTCGCCCCACCGGAGCCTAGACACATACCTGCCAATCGCGGAGAGATCAAAGGGTCTGAGTCTGCC
ACCTACGTGCCCCGTGGCCCCCCCCACCCAGCCTGGCAACCAGAGATCAAACCGGAGCCTGCCTGGCACGACCAG
GATGAGACATCGAGTGTGAAGAGTGATGGGGCTGGTGGGGCGCGGGCTTCCTTCCGTGGCCGTGGACGGGGGCGT
GGTCGCGGGCCGGGGACGCGGCCGGGGTGGCACTCGAACCATTGTTGACTACCAGTTTGGCTACCGAAAGTTTGAT
GGTGTGGAGGGGCCTCGTACGCCCAAGTACATGAACAACATCACCTACTACTTTGACAATGTCAGCAGCACCGAG
CTTTACAGTGTGGATCAGGAAGTCTCAAAGACTACATCAAGCGCCAGATTGAATACTACTTCAGCGTGGACAAT
TTAGAGCGAGACTTCTTCTGCGAAGGAAAATGGATGCTGATGGTTTTCTTACCCATCACCTTATTGCTTCTTTC
CACCGAGTGAGGGCCTTACCACTGACATTTCACTCATCTTTGCGGCCCTAAAGGACAGCAAGGTGGTGGAGATC
GTTGATGAGAAAGTTCGTAGGAGGGAGGAACCAAGTGGCCTCTTCCCCAATAGTGGATTATTCACAGACT
GATTTCTCCAGCTTCTCAACTGCCCTGAATTTGTTCCCGTCAGCACTACCAAAGGAGACAGAGTCGGCACCT
GGCTCTCCTCGTGAGTCACCCAGTGCCAACCAAAACAGAGGAGGTCAGCAACCTAAAGACACTACCCAAGGGC
CTGTCTGCCAGCCTGCCTGACCTGGATTCTGAGAACTGGATTGAAGTGAAGAAGAGGCCTCGGCCATCCCCAGCA
CGCCCCAAGAAGTCAGAGGAGTCCAGATTTTCCACCTGACCTCTCTGCCTCAGCAGCTGCCTTCCAGCAGCTG
ATGTCCAAGGATCAGGATGAGCAAGAGGAAGTGGATTTTCTGTTTGACGAGGAGATGGAGCAGATGGATGGGCGG
AAGAACACCTTCACTGCCTGGTCTGATGAGGAATCTGACTATGAGATTGATGACAGGGATGTCAACAAGATCCTC
ATTGTCACCCAGACACCACATTACATGCGCCGGCACCCAGGGGGGACCGCACAGGCAACCACACCTCGCGTGCC
AAGATGAGCGCCGAAGTGGCCAAGGTCATTAATGATGGCCTCTTCTACTATGAGCAGGACCTGTGGGCTGAAAAG
TTTGAACCTGAGTATTCCCAGATCAAGCAAGAAGTCGAGAAGTTCAAAAAGGTCAATATGATCAGCCGGGAGCAG
TTTGACACACTGACCCCTGAGCCCCCTGTGGATCCCAACCAGGAAGTTCTCTCTGGGCCACCTCGGTTCCAGCAA
GTTCTTACGGATGCCCTGGCCAACAAGTTGTTTGGTGCTCTGAGCCCTCCACCATCGCCCGCTCTCTACCAACC
ACTGTCCCAGAGTCACCAAACCTACCGCAACACCAGGACCCCTCGCACTCCCCGGACACCACAGCTCAAAGACTCA
AGCCAGACATCACGGTTTTTACCCAGTGGTGAAAGAAGGACGGACACTGGATGCCAAGATGCCTCGAAAAAGAAAG
ACAAGACACAGTTCAAACCCACCCCTTGAGAGCCATGTGGGCTGGGTGATGGATTCCCGTGAGCACAGGCCCCGT
ACTGCTTCCATCAGTAAGATGGCCCCAGTGTGTGTTTCTGTTTCCCAAAGCAAGCTTTGAGAGCCACCTACCTA
TGACCAATGCTCTCTACTCCCTGCAGAGATGGCACAGACTGCAATAGGCATGCTTTTGAAGAAAATATACAATT
GATCTTTGAACAACGAAGGGCGTGGGGTGCCAGCTGCACACAGTTGAAAATCCGTGTATAACTTTTGACTCTCC
AAAAGCCTACTGTTAACCAGAAGCCTTACCAATAACATATAGTCAATTAGCACATGTTTTGCATATTATATGTAT
TACATACTGTATTCTTACAATAAGCTAAATAA

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FIGURE 1784

MKEQEKGEKSDSKESPKTKSDESGEEKNGDEDCQGGQKKKGNKHKWVPLQIDMKPEVPREKLASRPTRPPEPRH
IPANRGEIKGSESATYVPVAPPTPAWQPEIKPEPAWHDQDETSSVKSDGAGGARASFRGRGRGRGRGRGRGGT
RTHFDYQFGYRKFDGVEGPRTPKYMNNITYYFDNVSSTELYSVDQELLKDYIKRQIEYYFSVDNLERDFFLRKM
DADGFLPITLIASFHRVQALTDDISLIFAALKDSKVVEIVDEKVRREEPEKWPLPPIVDYSQTDQSLLNCPEF
VPRQHYQKETESAPGSPRAVTPVPTKTEEVSNLKTLPKGLSASLPDLSENWIEVKRPRPSPARPKKSEESRFS
HLTSLPQQLPSSQQLMSKDQDEQEELDFLFDEEMEQMDGRKNTFTAWSDEESDYEIDDRDVNKILIVTQTPHYMRR
HPGGDRTGNHTSRAKMSAELAKVINDGLFYEQDLWAEKFEPEYSQIKQEVENFKKVMNISREQFDLTPEPPVD
PNQEVPPGPPRFQQVPTDALANKLFGAPEPSTIARSLPTTVESPNYRNTRTPRTPRTPQLKDSSQTSRFYPVVK
EGRTLDKMPKRKRKTRHSSNPPLSHVGVWMDSREHRPRTASISSPSEGTPVGSYGCTPQSLPKFQHPSELL
KENGFTQHVVHKYRRRCLNERKRLGIGQSQEMNTLFRFWSFFLRDHFNNKMYEEFKQLALEDAGEYRYGLECLF
RYYSYGLEKKFRDLIFKDFQEETVKDYEAGQLYGLEKFWAFLKYSKAKNLDIDPKLQEYLGKFRRLDFRVDPPM
GEEGNHKRHSVVAGGGGGEGRKRCPSSQSSSRPAAMISQPPTPPTGQPVREDAKWT SQHSNTQT LGK

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FIGURE 1785

GGCACGAGGGAAGAGCTCCACCTTCTCTGGATGTGCCTGGGCTTGGACTGGCTAGAATCTTTCTCTGGACTGTT
GCATGTACAGTGCCTCCATCCTGGAGGCAAGAGAGTTGGGAGTGGCTCGAATCAGAGCCGTGCCCAAGATATCCC
TGCTGTTGCATCGTTTGAAGCTGACGTCTGTGTCTGTACACTGCTGCCACTGTTGTGTCTCGCTCTGCTTGCT
GTTGCCTCACGCCAGGCCCCGTCTGCGTGACACCCCTTCATCCTACCCTTGGAACCCCAAGGCCAAGTTGGTTC
AAACTGTTGGAGAACAGAGTTGGCCTGCATCTGGAACACACTTGTCTCAGCTTACCATCTCCTCACACCCCAGA
GTGGAAGGTGAACACCTGCAGCTGAGGCTTGGAACGTTTCTTGTGTTGCCCTGAAAAATCTTTGAGACCTCAG
GGAGGCTCTGTCTCTCTTAAAAGGTGGAGAAAGATGCCATTCTCTCCCTAAGGTCTGGTGGAGTCTCCCCATCTT
GCATACCCTTCTGCAAGCCATCTATCTCTGCTCACTCTCCAATTGACCCGCTGGGAACAAGGGATGAGGAGGAG
TTGGGGGCTGGGGGGAATCCTGCCAGTTGGTGAAGCCCTGTGGCAGGAAGGTATATGTGGACATAGAGTATACCT
GATTCTCTTTCTTCAGCCACTGACTGCTTGGGTTGGGCTGTGAATGATAATGGAATGGCTGGAGTCTGCTGTTGT
CAGAAGGCAGGGAGGGTGATGAAGGACTGACCCACATGGACTGGGATGTGTGTGCGTTATGGGCATGACTGCACG
TTCATCTCAGTGGGATCTGGGCAACATGGAGTTTCATTGTCTGTGCTTACTTACTGCAATGTCTTTGGCCCTC
CTTTTCAACTGGTTTCTCTGTGTTGGGCCCAAAGGTGGGAGTAGGAGACAGTATCCCAGGCTGACAAGGGCTTGCC
CTTTACCTTGGGCACCTTGTTAATTTTTAGCCTGTGCCCTTCCCCACCTTTGCCCTCCCAGTGGTTGGTATGTGG
GAAGCCCATCTCAGTTTCTGTGACTTCATGTCTCAAACCAAGGATGAGCGTCTGGTCTCTGCTATGATGGTGGTA
TCCGAGGCCCTTTCCCTGCCCAGTCTGGTGCCTGCCCCACATTGTACCGGACACTGGATTCTGGACCCCCCTCTC
CTTTCTTTCTTTCTTCAGGTACGCAGCCCTGTACTGTATCCAGCACCACAGAAACCTCAGTGTTTTTCTCTCT
GCTGGTTTGGGGCACAAGGAAGCCTTAGGGTATGGGGAAAGGCTGTTATTACCTAGAGTTTACTCCCAGGCCAGG
GGGCTGCCATCTTCTTCACAGACATCCCTGAAAAGGAAGCCCTTTGGGGCAGGGAGGTGAGGACTTCATCTCAAC
ATCGGCTGGTGGTTGGTAGGGGAGCTTTTTCTTTCTTTCTTTTTTTTTTTGTTTTTGTTTTTGTTTTTGT
GTAACATGTTAGGAGTTAATGTTGCAAAGAGTAGTTTACATCTTCATTTCTGAAGACACTTGAATTTAGGACCG
ATGTATCTGTGACAAGCATGCCAGAAGTGGCAGGGGCCATCAGGGCTAACCCTTCACACCTACCATCGTCCCAT
GGGGATCCAAGACCTGAGATAAAGCAACAGCCTGCCCAGATCCCTCTGTTTCATCCTATCCCTTCCAAGGTGGTC
CATGCCAACATAACCTCTGGGCATCAGACATCAGCAGGTCTGTGTGCCTCAGCCCTGTTAAGGGGCAGGTTTCTC
TTTAGCCCTCTTCTGCACTTGGGAGCAAAGGCACTACCAGTAGAGAAGGGCCATCCAGCCGTGCCCCAGCCTGG
ACCCCTGGGGCTCAGATAGAGGTGCTGAGCCCTGTGTCAAAGTTGTTAAATGTTTTTGTGTTTGTCCATTGTAG
CTCTTTTTTTTTTTTTTCCCTTTTCTGGTGATTGATTTTACAAAAGAAAGTAAGCTGCTTAGAAGGCCCTGGAAGG
GAAGTGAGGAGGAGGGACAAGGAAGATGACTAGTTACGGAGGGTGAGGGTTGTTTTTGGCAAAAAGCCTGGGTA
GAGTGATCTGAATTATCTGGCACCCCTCCTGAATGGAACCCAGAGTACCTCCTGTGTGGAAGGTCCCTGGATTT
TCCCTAACACCCACCCTCTCCCCCTTCAGCCATGCTGATGGCAGAGAAGATAAGAACTTGGAGCCCATTCTCAC
TGGAGAGGAAAACCTTGTCTCTGGCTTTGCGGAGAAGGTTCCACCTTACGCTCGTAGTACATTATCTTTACTATG
TGCTAGGATATCATATTTAAAAGGACAAAAAATGTAAATACTTGAATGAGCTTGATTATAACATTAATATTA
TTGAGAGTATCTGCTTTCCAGGCTGAAGTGATTTCATTATTCTAGTCCTGCTTTAGTCCTTTGTAATTTGTG
GTAATTATGCTTTTCTTTTTTAATACAAAAAATGTATAAAAAATAAACACTTGAAAAGGCCAAAAA

AA

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FIGURE 1786

MLGVNVAKSSLHLHFLKILEFRIDVSVTSMPEVAGAIRANHFTPTIVPWGSKT

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FIGURE 1787

GCGGTCTTATATAAGCCAGATCCGCAGGGGAGTCCGCAGAAGGGTTAAACAGGTCTTTGGGCTTCGGCGACCTCG
CCCGCGGCAGAAACCGGTAAGAAGACAGTGGGCTGCGCGTCTCATTTCAGCCTTGCCCGGACTCTCCCAAAGCC
GGCGCCAGTAGTGGCTCCAGAGCCACAGGTGGCCCCGGCAGTCTCTGGGGCGCATGGAGCGGCGTTAATAGG
GCTGGCGGCGCAGGCCAGTAGCCGCTCCAACATGAACCTCGTGGGCAGCTACGCACACCATCACCACCATACCA
CCCGCACCTGCGCACCCCATGCTCCACGAACCTTCCTCTTCGGTCCGGCCTCGCGCTGTCATCAGGAAAGGCC
CTACTTCCAGAGCTGGCTGCTGAGCCCGGCTGACGCTGCCCCGGACTTCCCTGCGGGCGGGCCGCCGCCGCGGC
CGCTGCAGCCGCCACCGCCTATGGTCCTGACGCCAGGCCTGGGCAGAGCCCCGGGCGGCTGGAGGCGCTTGGCGG
CCGTCTTGGCCGGCGGAAAGGCTCAGGACCCAAGAAGGAGCGGAGACGCACTGAGAGCATTAAACAGCGCATTTCGC
GGAGTTGCGCGAGTGCAATCCCCAACGTGCCGGCCGACACCAAGCTCTCCAAGATCAAGACTCTGCGCCTAGCCAC
CAGCTACATCGCCTACCTGATGGACGTGCTGGCCAAGGATGCACAGTCTGGCGATCCCGAGGCCTTCAAGGCTGA
ACTCAAGAAGGCGGATGGCGGCCGTGAGAGCAAGCGGAAAAGGGAGCTGCAGCAGCACGAAGGTTTTCTCTCTGC
CCTGGGCCCAGTCGAGAAGAGGATTAAAGGACGCACCGGCTGGCCGCAGCAAGTCTGGGCGCTGGAGTTAAACCA
GTGAGCCGAGGCCCCGCGCCGAGGACCTGGCCAGGCCAGCCACTCTGAAGCCCCGGGAGGAGAGGAAGGCAGCGG
CGAACGCCAGGCTCTGGGCTCCGGCGACTGGTGCTACGCATCCCGCGGAGCTTCTGCTGAGCGCCGGCAGGTCTGT
CGGCTGCAACCACACACTTGGATCGCACGTGCAATGTCTTTGATTTTTTTTAAATACATTAAAGAGAAAGAGAAAT
ATATATATATCCACCCCCAGCCCAACCGAGGGCGGCCCTTGGCGGCAACATGCAAGAAGGAGGGACTGTGCAACC
CAAGGGCTCAAAGACGCACTCTTCCACCCTTTTGGAGCGAATTTAGAACCTCAGCCCTATCTCCATTTCCCTATC
TGGCTCTTTCTCTCTTGTCCCTCCATATGATCCGCCCCGACGCCGTCTCTCTAATTAAATGCAATAAGGAATC
AATTCTTTTCTTGCCTGAGAAAGAGAACCAGACGCAGGAAGATGAAAAGGCTGCCCTTTGTTCTTCGAATCGTGGT
GGTTTTATTTTATTTTCTTTTGTGCTGCACTTCCTGTTTAGTTCCAAGGGAAACACTTTCTCTCTTTCTCTG
TCTCTCTCTTTTCTTCTTCTTTTCTTCTTCTTTTGTCTATCTAAATAAAAAGCTTTCCTGTGTTGGAAAGTT
TTTATGTATTTAACTACCTACCATGCCTGTTGTGCTCAGGTGTTTGTTCATCCTGCCATCCCCAACCCTTTTCT
ACCTCAAGTCTGTGTGACCACTCACAGCCCCCTCCCTTCGCCAAAGCAGTGTCTATGCTCTTGATTAATAAAAC
ATTTTCTGAAATCAAAAAAAAAAAAA

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FIGURE 1788

MNLVGSYAHHHHHHPHPAHPMLHEPFLFGPASRCHQERPYFQSWLLSPADAAPDFPAGGPPPAATAATAYGPD
ARPGQSPGRLEALGGRLGRRKGS GPKKERRRTE SINSFAELRECIPNVPADTKLSKIKTLRLATSYIAYLMDVL
AKDAQSGDPEAFKAELKKADGGRESKRKRELQQHEGFPPALGPVEKRIKGRTGWPQQVWALELNQ

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FIGURE 1789

ATGCACTATTCTAAGGAATATAGGCAGATGTACAGAACTGAAATTCGAATGACAAGGATGGCAAGAAAAGCTGGC
AACTTCTATGTACCTGCAGAACCCAAATTGGAGTTTGTCATCAGGATCAGAGGTATCAATGGTGATCAGATTCAT
AAGATCTATACTGTTGGAAAACGCTTCAAAGAAGCAAATAACTTTCTGTGGCCCTTCAAATTACCTTTTCCACCA
GGCAGAGTGAAGAAAAAGACCACTTATTTGTAGAAGGTGGAAATGCTGGCAACAGGGAGGACCAGATCAACAGG
CTTATTAGAAGAATGAACTAA

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FIGURE 1790

MHYSKEYRQMYRTEIRMTRMARKAGNFYVPAEPKLEFVIRIRGINGDQIHKIYTVGKRFKEANNFLWPFKLPFFP
GRVKKKTTYFVEGGNAGNREDQINRLIRRMN

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FIGURE 1791

GATCAGGGCCGAGTTGTCTCGGCGGGCGCTGCCGAGGCCTCCACCCAGGACAGTCCCCCTCCCCGGGCCTCTCTCC
TCTTGCCCTACGAGTCCCCCTCTCCTCGTAGGCCTCTCGGATCTGATATCGTGGGGTGAGGTGAGCAGGCCCGGGGA
GGGTGGTTACCGCTGAGGAGCTGCAGTCTCTGTCAAGATGATAGAGGTACTGACAACAAGTACTCTCAGAACT
GCTACACCAGCTGAATGCCCTGTTGGAACAGGAGTCTAGATGTCAGCCAAAGGTCTGTGGTTTGAGACTAATTGA
GTCTGCACACGATAATGGCCTCAGAATGACTGCAAGACTAAGGGACTTTGAAGTAAAAGATCTTCTTAGTCTAAC
TCAGTTCTTTGGCTTTGACACAGAGACATTTTCTCTAGCTGTGAATTTACTGGACAGATTCTGTCTAAAATGAA
GGTACAGCCCCAAGCACCTTGGGTGTGTTGGACTGAGCTGCTTTTATTTGGCTGTAAAATCAATAGAAGAGGAAAG
GAATGTCCCATTGGCAACTGACTTGATCCGAATAAGTCAATATAGGTTTACGGTTTCAGACTTGATGAGAATGGA
AAAGATTGTATTGGAGAAGGTGTGTTGGAAAGTCAAAGCTACTACTGCCTTTCAATTTCTGCAACTGTATTATTC
ACTCCTTCAAGAGAACTTGCCACTTGAAAGGAGAAATAGCATTAAATTTGAAAGACTAGAAGCTCAACTGAAGGC
ATGTCATTGCAGGATCATATTTTCTAAAGCAAAGCCTTCTGTGTTGGCATTGTCTATCATTGCATTAGAGATCCA
AGCACAGAAGTGTGTAGAGTTAACAGAAGGAATAGAATGTCTTCAGAAACATTCCAAGATAAATGGCAGAGATCT
GACCTTCTGGCAAGAGCTTGTATCCAAATGTTTAACTGAATATTCATCAAATAAGTGTTCCAAACCAAATGTTCA
GAAGTTGAAATGGATTGTTTCTGGGCGTACTGCACGGCAATTGAAGCATAGCTACTACAGAATAACTCACCTTCC
AACAATTCCTGAAATGGTCCCTTAACTGGATTATTACAGCACCAAAAACTTCTCTGAAGCCTTTCTCCACAACC
TTGTTCTATGGATTCCATAATGTTACAATGGATTTAAGCTATGAAGCCTCAAAACATCACGAGATAAGCATGATG
GTCTCAGACTTGGGAAAAGTGCCTAATATTATGCTGTAGTGGAATTATGTTTATGATTTGAATTCATCTGTGAAG
GCATTCAAATCAAAGCTAAAAGCCTAAATGTGAAATGCTAATGACAAGCCTGAGAAGGTAAACTATGAATCTTCA
TTTCTATCATTGATCTAACTTTAGATATTGGATCAATATATTTAGGTGGTATTGAAAATGCTATTGGAGGAGTCA
CACTAATACTATCAACTATCAGTCTTCCACAGCTTCAATCACTGTCTATTCTAATCCTACTCTACTTAAAT
TTTAAGTTATGAGGTTTATGTGAAAGCAACATTTACAAATGTACTTTTAAGGCATAATAAGGGTTAACATTCT
AGG

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FIGURE 1792

MIEVLTTTDSQKLLHQLNALLEQESRCQPKVCGLRLIESAHDNGLRMTARLRDFEVKDLLSLTQFFGFDTETFSL
AVNLLDRFLSKMKVQPKHLGCVGLSCFYLA VKSIEEERNVPLATDLIRISQYRFTVSDLMRMEKIVLEKVCWKVK
ATTAFQFLQLYYSLLQENLPLERRNSINFERLEAQLKACHCRIIFSKAKPSVLALSIIALEIQAQKCVELTEGIE
CLQKHSKINGRDLTFWQELVSKCLTEYSSNKCSKPNVQKLKWIVSGRTARQLKHSYYRITHLPTIPEMVP

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FIGURE 1793A

GTAGAGTTAAGGAAGGGCCTCTTCTCTGTGAGAATTGAGCATTGCAACCATCCAAAAATGTTGAGGGCATGC
TTTGCTTCCAGGGCAGACAGAGCAGCACAGTGAGCATGGGACACAGGATCCCTGACTTGCTGTGTGCCCTTAAAC
CAGCCACTACCTCTCTGACGTTCAAAATTGAGCAATGGAAGGCAGCCTGCCCAACTGTTACCTGCCTGTCATCAT
GAAAGCCTGCGGATGAGTGCAGAATACAGAACTGCAGCCATGACCACGCACGTCACCCTGGAAGATGCCCTGTC
CAACGTGGACCTGCTTGAAGAGCTTCCCCTCCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCAT
GTACCAGGCTAACTTTGACACAACTTTGAGGACAGGAATGCATTTGTCACGGGCATTGCAAGGTACATTGAGCA
GGCTACAGTCCACTCCAGCATGAATGAGATGCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACCTGGCG
CAGCTGTTCCCGGGCCATTCCAGGTGAAATGCAACGAGCAGCCCCAACCGAGTAGAGATCTATGAGAAGACAGTA
GAGGTGCTGGAGCCGGAGGTACCAAGCTCATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGC
AGCGAGGTGAAGCGGCTGTGCCATGCCGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCTGACCCTTGGC
AAGTTCATCAACATGTTTGCTGTCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGCC
TACAAGAGGGCAGCACAGTTCTGCGGAAGATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATG
TTCTGGCCAACCACAACAGGATCACCCAGTGTCTCCACCAGCAACTTGAAGTGATCCCAGGCTATGAGGAGCTG
CTGGCTGACATTGTCAACATCTGTGTGGATTACTACGAGAACAAGATGTACCTGACTCCCAGTGAGAAACATATG
CTCTCAAGGTGATGGGCTTTGGCCTCTACCTAATGGATGGAATGTCAGTAACATTTACAACTGGATGCCAAG
AAGAGAATTAATCTTAGCAAAATTGATAAATTCTTTAAGCAGCTGCAGGTGGTGCCCTTTTCGGCGACATGCAG
ATAGAGCTGGCCAGATACATTAAGACCAGTGCTCACTATGAAGAGAACAAAGTCCAAGTGGACGTGCACCCAGAGC
AGCATCAGCCCCCAGTACAATATCTGCGAGCAGATGGTTCAGATCCGGGATGACCACATCCGCTTCATCTCCGAG
CTCGCTCGCTACAGCAACAGTGAGGTGGTGACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGC
GAGCTCTTCGACCTAGCCCTGCGGGGTCTGCAGCTTCTATCCAAGTGGAGCGCCACGTATGGAGGTGTACTCT
TGGAAGCTGGTTTCATCOCACAGACAAGTTCTGCAACAAGGACTGTCTGGCACC GCGGAGGAATATGAGAGAGCC
ACACGCTACAATTACACCAGTGAGGAAAAATTTGCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTG
CTCATGGGCAGGATGGAGAGCGTCTTCAACCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCC
CAGGTGACGCTGCGTGAGCCCCTGCGGCAGGCGGTACGGAAGAAGAAGTGTCTCATCAGCGTCTACAGGCA
ATTGGAAGACCATCTGTGACTGGGAGGGAGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGAC
CCCAAAGGTGGATTGATATCAAGGTGCCCCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGCGG
ACCATGCTTGAATCACTCATTGCAGACAAAAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATT
GTCTCGCCATAGAGGACTTTTCAAAACAGTCTTCTTCTTCACACATCTGCTCAACATCAGTGAAGCCCTGCAG
CAGTGTGTTGACCTCTCCCAGCTCTGGTTCCGAGAATTCTTCTGAGTTAACCATGGGGCCAGCAATCCAGTTC
CCCATCGAGATGTCCATGCCCTGGATTCTAACGGACCATATCCTGGAAACCAAAGAACCTTCCATGATGGAGTAT
GTCTCTACCCCTCTGGATCTGTACAACGACAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTGTAC
GATGAGATAGAAGCTGAGGTGAACCTGTGTTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTAC
TACAAAGCCATGGCTGGCAGTGTCTGTGGATAAACGTTTTTCGAGCTGAGTGTAAAGATTATGGCGTCATCATT
CCGTATCCACCGTCCAATCGCTATGAAACACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGAC
TTGAACAGACTCATTACCCAGCGCATCTCTGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAG
AGTGAGGACCTGACCTCCATTGTGGAGCTGGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGT
AAGCATATGACGCTGGACAGCTTCGATGCCATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCCCTATGGCCGT
ATCACCTGTCATGTCTTCTGGAACTGAACCTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGT
TTGTGCGGACTGCCATTCTTTTACCCAAGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTC
TATGGATCCAAGCCTCTCAACATTGCCTACAGCCACATCTACAGCTCCTACAGGAATTTCTGTTGGGGCCACCTCAT
TTCAAGACTATCTGCAGACTCCTGGGTATCAGGGCATCGCTGTGGTTCATGGAGGAAGTCTAAAGATTGTGAAG
AGCTTGCTCCAAGGAACCATCTCCAGTATGTGAAAACACTGATAGAGGTGATGCCCAAGATATGCCGCTTGCCC
CGACATGAGTATGGCTCCCCAGGGATCCTGGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAG
CTCAAAACAGACGTGTTCCAGAGCCTGAGGGAAGTGGGCAATGCCATCCTCTTCTGCCTCCTCATAGAGCAAGCT
CTGTCTCAGGAGGAGGTCTGCGATTTGCTCCATGCCGCACCCCTTCCAAAACATCTTGCCTAGAGTCTACATCAA
GAGGGGGAGCGCCTGGAGGTCCGGATGAAACGTCTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATC
GAGCGGCTGGGGACCCCTCAGCAAATCGCCATTGCTCGCGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGT
GGCTGTCCATGTTTCAGGTCATCCTGACCCGCATTTCGGAGCTACCTGCAGGACCCCATCTGGCGGGGGCCACCG

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FIGURE 1793B

CCCACCAATGGCGTCATGCACGTCGATGAGTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCGTGTAC
TGATCCCTGTGGGAACCAACGAGTTCACAGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGCTGGTTGCTCC
ATCATTGTCTGTGGGCCAGCAGCGTCGCTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGG
CAGGACGGGAAGGATGAAATCATTAAAGATGTGCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATC
TTGAACAATGAGGTTTTTGCCATCCTGAACAAATACATGAAGTCCGTGGAGACAGACAGTTCCTGTGGAGCAT
GTGCGCTGCTTCCAGCCACCCATCCACCAGTCCTTGGCCACCACTTGCTAAGCAGAAGATCCTGCAGACCCCTTAT
CTGGAGGAGGAAGAGAAGCAGGAGAGAGAAAGCCACAGCCAGCCTGCCATAGGATCCAAGTGGACAACGTGTGGG
ATGGACCTGGAAACAAGCACCTCCCCAAACACATCACCCTCCCTAGGGCGGGGCTGTGCATGCTCTCCCATGA
CATCTCCATGCTGGTTTTCTCCATAGCATAAATGAAAAAAAAAAAAAAAAAAGTAAACAGGGCAGTGTGTGCTTTTT
CTTTCTCCCCCTCAACTATATTAAGAACTCCTAGTTTCACCCTTCTCCATCCCATCATCCACCTATCTGTG
GTTGCTTCCCAAGACCT

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FIGURE 1794

MKFMFYQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNIIYKLDKAKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHPTDKF
CNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKTLRSSL DGPVLAIEDFHKQSFFFTHLLNISEALQQCCDLSQLWFRFFLELTMGRRIQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIIPPSPNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLLCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQ
EPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGPPHFKTICRLLGYQGIADVMEELLKIVKSLLQG TILQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAELKTDVFQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGTPOQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDPIWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAEOCFGDGLNWAGCSIIVLLGQQR
FDLFDFCYHLLKVQRQDGKDEI IKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPP IHQ
SLATTC

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FIGURE 1795

GCGGCCTCAGATGAATGCGGCTGTTAAGACCTGCAATAATCCAGAAATGGCTACTCTGATCTATGTTGATAAGGAA
AATGGAGAACCAGGCACCCGTGTGGTTGCTAAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAAGCCTTA
GATGGGAGATCTCAAGTTTCAACACCACGTTTTGGCAAAACGTTTCGATGCCCCACCAGCCTTACCTAAAGCTACT
AGAAAGGCTTTGGGAAGTGTCAACAGAGCTACAGAAAAGTCTGTAAAGACCAAGGGACCCCTCAAACAAAAACAG
CCAAGCTTTTCTGCCAAAAAGATGACTGAGAAGACTGTTAAAGCAAAAAGCTCTGTTTCCTGCCTCAGATGATGCC
TATCCAGAAATAGAAAAATTCTTTCCCTTCAATCCTCTAGACTTTGAGAGTTTTGACCTGCCTGAAGAGCACCAG
ATTGCGCACCTCCCTTGAGTGGAGTGCCTCTCATGATCCTTGACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG
CTGGGCCCCCTTACCTGTGAAGATGCCCTCTCCACCATGGGAATCCAATCTGTTGCAGTCTCCTTCAAGCATT
CTGTCGACCCTGGATGTTGAATTGCCACCTGTTTGCTGTGACATAGATATTTAAATTTCTTAGTGCTTCAGAGTT
TGTGTGTATTTGTATTAATAAAGCATTCTTCAACAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1796

MATLIYVDKENGEPTTRVVAKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALPKATRKALGTVNRATEKSV
KTKGPLKQKQPSFSAKKMTEKTVKAKSSVPASDDAYPEIEKFFPFNPLDFESFDLP EEHQIAHLPLSGVPLMILD
EERELEKLFQLGPPSPVKMPSPWESNLLQSPSSILSTLDVELPPVCCDIDI

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FIGURE 1797

ATGGCCCTGGAGTTTCTCCCTCAGACTAAGAACCATCCACCAGTAGCAGAACTACATCCTCAGGGGGGGTTTTCT
TTCGTGAATGCAAATGTCCCGGCACCTAAACGGTTCACATTACCGCAGGTGATTTCTGCAGCTGTAACCTAAGTTC
CATCCTCAGCAAGAATCAGAACCACCAGAGACAGAGCAGAGAGACACCATGCCCTCACTTGCGAGAGTTCAAATG
GCACTTTCTTGAAAAAGAAGATTGGGTGTTACAGCTTTCTGAGCAACAACGATACAAAGTGGATGCAATTCAT
CCATCGTCTCTGAAAAGTCTTCGACCATTGCATGAGATTGTAGAGGAAGACAGGCACAGGAAGACCAAACAGCGT
GTAGAGGATACGAAGATTGGCTACCCAACCTGTTGCATCAGTACCCCATTTCTATCATCAACGGGTACAAACGAGTC
CTGGCCTTGCTGTGTGGAGACGGATTACACCTTCCCACTCGCTGAAAAGGTCAAGGCCTTCTTGGCTGATCCATCT
GCCTTTGGCTTTGATGTTTCAAGCAATGCTGGGTCAACCCAACCACTCAGCACATTCACTGGACCTGGTCGTGCC
CAAGCTCCTCCACTGCATGATTCAGAGTTGAGATAG

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FIGURE 1798A

GCAACTGGACAACAACCACATCAGCTGCATTGAAGATGGAGCCTTCCGAGCGCTGCGCGATTGGAGATCCTTAC
CCTCAACAACAACAACATCAGTCGCATCCTGGTCACCAGCTTCAACCACATGCCGAAGATCCGAACCTGCGCCT
CCACTCCAACCACCTGTACTGCGACTGCCACCTGGCCTGGCTCTCGGATTGGCTGCGACAGCGACGGACAGTTGG
CCAGTTCACACTCTGCATGGCTCCTGTGCATTTGAGGGGCTTCAACGTGGCGGATGTGCAGAAGAAGGAGTACGT
GTGCCAGCCCCCCTCGGAGCCCCATCCTGCAATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAG
CAATAACATCGTGGACTGTCGAGGAAAGGGCTTGATGGAGATTCTGCCAACTTGCCGGAGGGCATCGTCGAAAT
ACGCCTAGAACAGAATCCATCAAAGCCATCCCTGCAGGAGCCTTCACCCAGTACAAGAACTGAAGCGAATAGA
CATCAGCAAGAATCAGATATCGGATATTGCTCCAGATGCCTTCCAGGGCCTGAAATCACTCACATCGCTGGTCTT
GTATGGGAACAAGATCACCGAGATTGTCAAGGGACTGTTTATGGGGCTGGTGTCCCTACAGCTGCTCCTCTCAA
TGCCAACAAGATCAACTGCCTGCGGGTGAACACGTTTCAGGACCTGCAGAACCTCAACTTGCTCTCCTGTATGA
CAACAAGCTGCAGACCATCAGCAAGGGGCTCTTCGCCCTCTGCAGTCCATCCAGACACTCCACTTAGCCCCAAA
CCCATTTGTGTGCGACTGCCACTTGAAGTGGCTGGCCGACTACCTCCAGGACAACCCCATCGAGACAAGCGGGGC
CCGCTGCAGCAGCCCGCGCCGACTCGCCAACAAGCGCATCAGCCAGATCAAGAGCAAGAAGTTCCGCTGCTCAGG
CTCCGAGGATTACCGCAGCAGGTTTACGAGCGAGTGTTCATGGACCTCGTGTGCCCCGAGAAGTGTGCTGTGA
GGGCACGATTGTGGACTGCTCCAACCAGAAGCTGGTCCGCAATCCCAAGCCACCTCCCTGAATATGTACCGACCT
GCGACTGAATGACAATGAGGTATCTGTTCTGGAGGCCACTGGCATCTTCAAGAAGTTGCCAACCTGCGGAAAAAT
AAATCTGAGTAACAATAAGATCAAGGAGGTGCGAGAGGGAGCTTTCGATGGAGCAGCCAGCGTGCAGGAGCTGAT
GCTGACAGGGAACCAGCTGGAGACCGTGCACGGGCGCTGTTCCGTGGCCTCAGTGGCCTCAAACCTTGATGCT
GAGGAGTAACCTTGATCGGCTGTGTGAGTAATGACACCTTTGCCGGCCTGAGTTCGGTGAGACTGCTGTCCCTCTA
TGACAATCGGATCACCACCATCACCCCTGGGGCCTTACCACGCTTGTCTCCCTGTCCACCATAAACCTCCTGTC
CAACCCCTTCAACTGCAACTGCCACCTGGCCTGGCTCGGCAAGTGGTTGAGGAAGAGGCGGATCGTCAGTGGGAA
CCCTAGGTGCCAGAAGCCATTTTTCTCAAGGAGATTCCCATCCAGGATGTGGCCATCCAGGACTTCACTGTGA
TGGCAACGAGGAGAGTAGCTGCCAGCTGAGCCCGCGCTGCCCGGAGCAGTGCACCTGTATGGAGACAGTGGTGG
ATGCAGCAACAAGGGGCTCCGCGCCCTCCCCAGAGGCATGCCCAAGGATGTGACCGAGCTGTACCTGGAAGGAAA
CCACCTAACAGCCGTGCCAGAGAGCTGTCCGCCCTCCGACACCTGACGCTTATTGACCTGAGCAACAACAGCAT
CAGCATGCTGACCAATTACACCTTCAAGTAACATGTCTCACCTCTCCACTCTGATCCTGAGCTACAACCGGCTGAG
GTGCATCCCCGTCCACGCTTCAACGGGCTGCGGTCCCTGCGAGTGCTAACCTCCATGGCAATGACATTTCCAG
CGTTCCTGAAGGCTCCTTCAACGACCTCACATCTCTTTCCCATCTGGCGCTGGGAACCAACCCACTCCACTGTGA
CTGCAGTCTTCGGTGGCTGTGCGAGTGGGTGAAGGCGGGGTACAAGGAGCCTGGCATCGCCCGCTGCAGTAGCCC
TGAGCCCATGGCTGACAGGCTCCTGCTCACCACCCCAACCCACCGCTTCCAGTGCAAAGGGCCAGTGGACATCAA
CATTGTGGCCAAATGCAATGCCTGCCTCTCCAGCCCGTGCAAGAATAACGGGACATGCACCCAGGACCCTGTGGA
GCTGTACCGCTGTGCCTGCCCTACAGCTACAAGGGCAAGGACTGCACTGTGCCATCAACACCTGCATCCAGAA
CCCCGTGTCAGCATGGAGGCACCTGCCACCTGAGTGACAGCCACAAGGATGGGTTCAGCTGCTCCTGCCCTCTGGG
CTTTGAGGGGCAGCGGTGTGAGATCAACCCAGATGACTGTGAGGACAACGACTGCGAAAACAATGCCACCTGCGT
GGACGGGATCAACAATACTACGTGTGTATCTGTCCGCCTAACTACACAGGTGAGCTATGCGACGAGGTGATTGACCA
CTGTGTGCCTGAGCTGAACCTCTGTGAGCATGAGGCCAAGTGATCCCCCTGGACAAAGGATTAGCTGCGAGTG
TGTCCTGGCTACAGCGGAAGCTCTGTGAGACAGACAATGATGACTGTGTGGCCACAAGTGCCGCCACGGGGC
CCAGTGCGTGGACACAATCAATGGCTACACATGCACCTGCCCCAGGGCTTCAAGTGACCTTCTGTGAACACCC
CCCACCCATGGTCTTACTGCAGACACGCCATGCGACCACTAGAGTGCCAGAACGGGGCCAGTGCATCGTGGT
GCAGCAGGAGCCCACCTGCCGCTGCCACACAGGCTTCGCCGGCCCCAGATGCGAGAAGCTCATCACTGTCAACTT
CGTGGGCAAAGACTCCTACGTGGAAGTGGCTCCGCCAAGTCCGACCCAGGCCAACATCTCCTGCAGGTGGC
CACTGACAAGGACAACGGCATCCTTCTCTACAAAGGAGACAATGACCCCTGGCACTGGAGCTGTACCAGGGCCA
CGTGCGGCTGGTCTATGACAGCCTGAGTTCCCTTCAACCACAGTGTACAGTGTGGAGACAGTGAATGATGGGCA
GTTTCACAGTGTGGAGCTGGTGACGCTAAACCAGACCTGAACCTAGTAGTGAGACAAAGGAACCTCAAAGAGCCT
GGGGAAGCTCCAGAAGCAGCAGTGGGCATCAACAGCCCCCTCTACCTTGGAGGCATCCCCACCTCCACCGG
CCTCTCTGCCTTGCGCCAGGGCACGGACCGGCTCTAGGCGGCTTCCACGGATGCATCCATGAGGTGCGCATCAA
CAACGAGCTGCAGGACTTCAAGGCCCTCCACACAGTCCCTGGGGGTGTACCAGGCTGCAAGTCTGCACCGT
GTGCAAGCACGGCTGTGCCGCTCCGTGGAGAAGGACAGCGTGGTGTGCGAGTGCCGCCAGGCTGGACCGGGCC

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FIGURE 1798B

ACTCTGCGATCAGGAGGCCCGGGACCCCTGCCTCGGCCACAGATGCCACCATGGAAAATGTGTGGCAACTGGGAC
CTCATACATGTGCAAGTGTGCCGAGGGCTATGGAGGGGACTTGTGTGACAACAAGAATGACTCTGCCAATGCCTG
CTCAGCCTTCAAGTGTACCATGGGCAGTGCCACATCTCAGACCAAGGGGAGCCCTACTGCCTGTGCCAGCCCGG
CTTTAGCGGCGAGCACTGCCAACAAGAGAATCCGTGCCTGGGACAAGTAGTCCGAGAGGTGATCCGCCGCCAGAA
AGGTTATGCATCATGTGCCACAGCCTCCAAGGTGCCCATCATGGAATGTCGTGGGGGCTGTGGGCCCCAGTGCTG
CCAGCCCACCCGCAGCAAGCGGCGGAAATACGTCTTCCAGTGCACGGACGGCTCCTCGTTTGTAGAAGAGGTGGA
GAGACACTTAGAGTGC GGCTGCCTCGCGTGTTCCTAAGCCCTGCCCGCCTGCCTGCCACCTCTCGGACTCCAGC
TTGATGGAGTTGGGACAGCCATGTGGGACCCCTGGTGATTGAGCATGAAGGAAATGAAGCTGGAGAGGAAGGTA
AAGAAGAAGAGAATATTAAGTATATTGTAAAATAAACAAAAAATAGAACTTATTTTTATTATGGAAA

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FIGURE 1799

GCCATGGGCCGCCGCCCGCCTGTTGTTACCGGTATTGTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGA
GGTGTCCCTGATGCCAAGATTCGCATTTTGGACCTGGGGCGGAAAAAGGCAAAAGTGGATGAGTTTCCACTTTGT
GGCCACATGGTGTGAGATGAATATGAGCAGCTGTCTCTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAG
TACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATATCCGGGTGCGGCTCCACTCCTTCCACGTCATCCGCATC
AACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGC
ACTTTGGCCAGGGTTCACACTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATT
GAGGCCCTGGGCAAGGCCAAGTTCAAGTTTCTGGCCGCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACC
AAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTAC
ATCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTT
AATACTACCAATAAATTCTACTAACTCTCAAAAAAAAAAAAAAAAAAATAGAAAAAAAAAAAAAAAAATAGACCAA
AAAAAAAAAAAAAAAA

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FIGURE 1800

GGCACGAGGGTGAGACGCTGATGGGAGGATGGACGTACTGGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGGA
AGAAGAGATTAAATCTCTGACTGCTGAAATTGACCGGTTGAAAACTGTGGCTGTTTAGGAGCTTCTCCAAATTT
GGAGCAGTTACAAGAAGAAAATTTAAAATTAAAGTATCGACTGAATATTCTTCGAAAGAGTCTTCAGGCAGAAAAG
GAACAAACCAACTAAAAATATGATTAACATTATTAGCCGCCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGC
ATATCCAGATTTGGAAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGTA
TAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAGAAATTGCTGAAAACAT
TACCAAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAATTGCTGGTCCTGGTTTTATTAATGTCCACTT
AAGAAAGGATTTTGTATCAGAACAATTGACCAGTCTTCTAGTGAATGGAGTTCAACTACCTGCTCTGGGAGAGAA
TAAAAAGGTTATAGTTGACTTTTCTCCCTAATATAGCTAAAGAGATGCATGTAGGCCACCTGAGGTCAACTAT
CATAGGAGAGAGTATAAGCCGCCTCTTTGAATTTGCAGGGTATGACGTGCTCAGGTTAAATCATGTAGGAGACTG
GGGGACCCAGTTTGGCATGCTCATCGCTCACCTGCAAGACAAATTTCCAGATTATCTAACAGTTTCACCTCCTAT
TGGGGATCTTCAGGTCTTTTATAAGGAATCTAAGAAGAGGTTTGATACTGAGGAGGAATTTAAGAAGCGAGCATA
TCAGTGTGTAGTTCTGCTCCAGGGTAAAAACCCAGATATTACAAAAGCTTGGAAGCTTATCTGTGATGTCTCCCG
CCAAGAGTTAAATAAAATCTATGATGCATTGGACGTCTCTTTAATAGAGAGAGGGGAATCCTTCTATCAAGATAG
GATGAATGATATTGTAAAGGAATTTGAAGATAGAGGATTTGTGCAGGTGGATGATGGCAGAAAAGATTGTATTTGT
CCCAGGGTGTTCATACCATTAACCATAGTAAATCAGATGGAGGTTATACCTATGATACATCTGACCTGGCTGC
TATTAAACAAAGACTATTTGAGGAAAAAGCAGATATGATTATCTATGTTGTGGACAATGGACAATCTGTGCACTT
CCAGACAATATTTGCTGCTGCTCAAATGATTGGTTGGTATGACCCTAAAGTAACTCGAGTCTTCCATGCTGGATT
TGGTGTGGTGCTAGGGGAAGACAAGAAAAAGTTTAAACACGTTCCGGTGAAACAGTGCGCCTCATGGATCTTCT
GGGAGAAGGACTAAAACGATCCATGGACAAGTTGAAGGAAAAAGAAAGAGACAAGGTCTTAACTGCAGAGGAATT
GAATGCTGCTCAGACATCCGTTGCATATGGCTGCATCAAATATGCTGACCTTTCCCATACCGGTTGAATGACTA
CATCTTCTCCTTTGACAAAATGCTAGATGACAGAGGAAATACAGCTGCTTACTTGTGTATGCCTTCACTAGAAT
CAGGTCTATTGCACGTCTGGCCAATATTGATGAAGAAATGCTCCAAAAGCTGCTCGAGAAACCAAGATTCTTTT
GGATCATGAGAAGGAATGGAACTAGGCCGGTGCATTTTACGGTTCCCTGAGATTCTGCAAAAGATTTTAGATGA
CTTATTTCTCCACACTCTCTGTGATTATATATATGAGCTGGCAACTGCTTTCACAGAGTTCTATGATAGCTGCTA
CTGTGTGGAGAAAGATAGACAGACTGGAAAAATATTGAAGGTGAACATGTGGCGTATGCTGCTATGTGAAGCAGT
AGCTGCTGTGATGGCCAAGGGGTTTGATATCCTGGGAATAAAACCTGTCCAAAGGATGTAATCCTTCATAGGTTT
GAACACTGTGTGTTTTTACCAAAGTGGCCATTGGCACTGTTTGCTTTTTTACAATCATGTGGACACAAGCATAAG
TAAAGAAAATTTGTCAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1801

MDVLVSECSARLLQQEEEIKSLTAEIDRLKNCGLGASPNLEQLQEENLKLKYRLNILRKSLQAERNKPTKNMIN
IISRLQEVFGHAIKAAYPDLENPPLLVTSPQQAQFGDYQCNSAMGISQMLKTKEQKVNPREIAENITKHLPDNEC
IEKVEIAGPGFINVHLRKDFVSEQLTSLLVNGVQLPALGENKKVIVDFSSPNIAKEMHVGHLRSTIIGESISRLF
EFAGYDVLRLNHVGDWGTQFGMLIAHLQDKFPDYLTVSPPIGDLQVFYKESKKRFDTEEEFKKRAYQCVVLLQGK
NPDITKAWKLICDVSROELNKIYDALDVSLIERGESFYQDRMNDIVKEFEDRGEVQVDDGRKIVFVPGCSIPLTI
VKSDGGYTYDTSDLAAIKQRLFEEKADMIIYVVDNGQSVHFQTIFAAQMIGWYDPKVTRVFHAGFGVVLGEDKK
KFKTRSGETVRLMDLLGEGLKRSMCKLKEKERDKVLTAEELNAAQTSVAYGCIKYADLSHNRLNDYIFSFDKMLD
DRGNTAAYLLYAFTRIRSIARLANIDEEMLQKAARETKILLDHEKEWKLGRCILRFPEILQILDDFLHLTLCDY
IYELATAFTEFYDSCYCVEKDRQTGKILKVNMRMLLCEAVAAVMAKGFIDILGIKPVQRM

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FIGURE 1802

CAGTTCACAGTGTTTCATCAGGCGAGATACTTTTGGACCCACAAAGCCAGTTTTTTGGGGGGATGCTCAGTGTCTA
CCTGCAGTGCCAAAGTTTTGCTTGAACAGCCCTCTTCTGCCGCGCCTCCCAGCTCCACCCCTATCACGTGGGTG
CTGGCTGCTTCTGCGTGAGGAGCTTCTCTGATCACCTGTAGCATCTTTAGTGCCTTCGTCCAGTCGGCCTGCAA
ATCCCATTTCCAGAGAGGCTTGGGCAGGGCCCACTTGCCACTTGCCCTGTGCCAGAGCGTTGGGGGCAGATG
GCAGCCAGGGGAAGAAGGGAGGTGGGGAAGGGCCGCCACCGCTTGAGGGTCCCCTCCCTTGAGAGGAGGCCCAT
GGCAGTTTTCTGAGTTCTTGATCCACTTTGGTTTAAACAACCTTTGTGAAGCTATGTGAGATTTGACTGCATTT
CAAAAGACAAAACACATGTTTTTTCTGATTTGCTCTTTGCCTTTCAGCGACGCTTTCAGATACTTTGTGAGTGT
CTACTCTGTGCTAGGTGCTGAGTAGACTGGGATGTGTGTGGCTCCATCCCTGGCTGGAAGAGCTTTGAGTCCTGT
CTGCTGACTTCACTGAAGGAGTTTCTCTCTTGCTTCATTCTCTCCCTCCCGGGGGTTCAGCTGGGTAGGAGCAGACT
TGCCCTGCCTTCCCTCTAGGCAGAAAGTTTTCTGCAAATGAAAGAATCTGCCATTCTCTTTTGCTATGATGATGA
TGATTATCTGACATGACCCGCGGGTACTGAAGCCACAGTCCTCTCTGTTCACTGTTCTCTCCTTGAGTCATATC
TATGGCCTGAGGACGTCTGTATCCAGCTCCTTTTCTTACAATGGTAGACACTTCCCCAGGCAGTGGGTGGGTGAG
GGTGGCCAGTCACTCTCCTAGCTGTCTTGCTGGGGACTTAGATTTACCCCATCCAGGACTGTGGTTCGCTATTC
TGTGAGCGATTGATGGCGCATATGCAGAACTCCCTGGAGTCATGGCTCTAGAAAGTGTCCAGGCCCATCGTGAC
AATGGTGCCAAGCACCGGGCTGGTGACCAGTGCCTAAACACACACGCTCCTTTAATCCTTACGGCAAGCCTGTGA
GGCGGATAGGACCAGCCCTGATCTATAGTGAGAAAATTAAGGTTTCCAGAGGGAGAAGGTCCAAATAGTGGCCAAGC
TGGGACTGAGATCTCGAGTTTGGGTTTGGTTTGGTTTGGTTTGGTTTCTTTCCCTCGTGTCCATGACTTTTCT
CTGCCATTAGCAGGGAAGTGTGCGGAGGGCTTCCAGGGAATCAAGTGACCTCCCTCTGAATTCGGTGCCTCTT
CCCCCGCCCCCTTGCTCACACATTTTCAGTAGGTTCACAGGCCAAATGGCAGCCCAAAGGTGGGCAGAGATTTTTT
TTTCTTCCCTTACCCCTGCTTATTAACACAATTGTGACAACCTACTTTACCTTACATCCCAGGGCAAACGGACAG
CTTGCGGTACCTCCAAAAATTTGGAAAACCTGAGTCTAAGACCACCTCTTGATAAAAGAGGCCTTTGCTCACAT
GTTCTGCTCGGAATCTTTCTTTGCCATTGGTGGGTGTATGTCGTCCCAGCTGAGACTGCGGGAGAGCTGAGCTCC
AGCTTAAACCGCTTTTAAATGGCCCTTCCCTACTGGGGGATCGCTGGAGCCCATGCCAGGTTACGGTAGTCATTTT
AAACCTCTGCCACAAGGCCACGCCATAGAATCAATTTCCAAGTCAATGTTCTTGCCCTAAAATGTTTGCGCCCA
CTGAGGATTTTATTACCAGGTGGAAGATGGGGGAACATATGCCACGTTAAAGAGCAAGTGCTGAGTGTGCCAGGA
CTTGAGAAGGACCTTAGGCTGAGGAGTGGACAGTCTGGTATTTATTTGCTCTCTCCAAGTACCCAGCACAGAGT
GGGAAAAAGAAGAACTGCTCCTGCCTTCCAGTAGCTGGCAACTTGACATCAAGAACAAAACATTCTGAGCTGG
ACCCCGTCTTTTCATCGTGCCCAAGTCTTACATGTTGGCTTAAGCTGCCCCCTTGAGGGCCGTACCTTTCTCTT
TGGACTGTGACAGTGGACACCTAACAGCCTGAGCCATGTGTGGCTGTCTTATCCCCAAGGGTTGTCCAGGCCCG
TTCTGCAGGGCTGTTGTGTAGACTGCAGACATCCATACCTCACCACAGACCAAAGATGACCTCGTGTGACTGT
GGGCTGATGAGAGGTAGAGCAGCATGCATCGAGGCCTGAGGGTGCAGGGCGCCCTCTCTTGCCCTGGAGGAATTG
CTCCTAACTAGAGTAAGTTTCCACGAGGGTCCCAGGCAGAGCTGCAGAGCTGGAACCGGAGGCTCCACAGTCCTT
GCCTGCTCATGGACCTCCTTCAGAGCACCTTTCTACAGACTGGACTGCCAGCTCCGTGGGGTGGCATCTGGTTT
CTGGTGCTATTCTGCCAAGTTATCGAGCTCCTCCTCATGTTTCAACATTCCATCTTCCCGTTTCTATCCTCGACT
CCAAAGTAAGCCTTCTTAGCTCCAATCAGGGATGAGGGGCTCAACCTCTTCTGTCTCAAAGAGGCCAAACGCAG
TGCCACAGTCGGTAGCCTTCACTTTTAGATGTCTATTTCATGTAAAAAAGAAGGTGCCCCCACCAGGCTTACATC
AGCAATAAGCAATTCTAATGCAACGATGGTGTCCACATTTTACCCAGTGTGTGCCATGTATGCCTTTGTGCC
GTGTAATTATTGTTAGCGCCCCCTTCACTTAGAGGGGTGATGATAAACTGTGGCCACCTTGATTACAACCCACAT
TTCTTGCTTTGGGGAGCTTCCAAGTAACAGGCCATTTCTTACCTCCCTCCAGGAACAGTGGGCACTGCCACCAC
CTCGTGTCTGCTCATAGGATGACGCTGGAGATCCCCACACTTACTCTACCTCTTGCCAAATTGGCATTCCGGTG
GTGGTTTTTGTTCCTTTAACACATTAAATAAATGAGTATATAGGATGTGAGGGGAGGGGTGAGAACAACCTAGCT
GTAGCATGTGTAGGCTATATACTTTACCATTTGACTTCTTTCTTTTTTTTTTTTTTAAATAAAAAAAGTGCTTGA
CTGTTTTCAAGCTTCATCATG

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FIGURE 1803

GGGGCCTGGTGTGATTCCGTCCTGCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCC
TACCTAAGTGCGTGCCGCCACCCGATGGAAGATTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTAT
CTTTTCGGTTGTGAACTAAAGGCCGACAAAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTA
TCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTAC
GAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTT
GAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTA
GCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGG
TCTGCCCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAAACCTTGCTGCTGATGAAGATGATGACGATGAT
GATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGTATGATGAGGAAGCTGAAGAAAAAGCGCCAGTG
AAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAAACCATCA
TCAACACCAAGATCAAAAGGACAAAGATCCTTCAAGAAACAGGAAAAAACTCCTAAACACCAAAAGGACCTAGT
TCTGTAGAAGACATTAAAGCAAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAA
TTCATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAG
TCTCTTTAAGAAAAATAGTTTAAACAATTTGTTAAAAAATTTTCCGTCTTATTTCATTTCTGTAACAGTTGATATC
TGGCTGTCCTTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTTTGATAAATGTTGTCCAGGTTCTATTGCC
AAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAACCTCACCCCTTGCTTGGTTTTAAGTATGTA
TGGAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAAATGGTGGGGAGACAAAAATACACATGTG
AAATAAACTCAGTATTTTAATAAAGTAAAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1804

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLADEDDDDDDDEDDDDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

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FIGURE 1805

GGGCGGCGCCCAATGGGCTGCGCGGAGCGTCACTTCCC GG CAGCGGGAGGCGAGTGGCGAGTGGCGAGTGGCGAG
TGTCAGGGGGGCGGCCGGCGGGGGCGGGGCGGCCGGAGGAGGCGTTGGCAGCGGGCTCGGACCCACGCGGCGCCG
CGGCGCGCTGGCCTGCAGCGCTCCCACCCCGGCGGGCGGCACGATGCCCTTTGACTTCAGGAGGTTTGACATCT
ACAGGAAGGTGCCCAAGGACCTTACGCAGCCAACGTACACCGGGGCCATTATCTCCATCTGCTGCTGCCTCTTCA
TCCTCTTCTCTTCTCTCGGAGCTCACCGGATTTATAACGACAGAAGTTGTGAACGAGCTCTATGTCGATGACC
CAGACAAGGACAGCGGTGGCAAGATCGACGTCACTCTGAACATCAGTTTACCCAATCTGCACTGCGAGTTGGTTG
GGCTTGACATTTCAGGATGAGATGGGCAGGCACGAAGTGGGCCACATCGACAACCTCCATGAAGATCCCGCTGAACA
ATGGGGCAGGCTGCCGCTTCGAGGGGCGAGTTCAGCATCAACAAGGTCCCCGGCAACTTCCACGTGTCCACACACA
GTGCCACAGCCCAGCCACAGAACCCAGACATGACGCATGTCTATCCACAAGCTCTCCTTTGGGGACACGCTACAGG
TCCAGAACATCCACGGAGCTTTCAATGCTCTCGGGGGAGCAGACAGACTCACCTCCAACCCCTGGCCTCCACG
ACTACATCCTGAAGATTGTGCCCACGGTTTATGAGGACAAGAGTGGCAAGCAGCGGTACTCCTACCAGTACACGG
TGGCCAACAAGGAATACGTGCGCTACAGCCACACGGGCGCATCATCCCTGCAATCTGGTTCCGCTACGACCTCA
GCCCCATCACGGTCAAGTACACAGAGAGACGGCAGCCGCTGTACAGATTTCATACCACGATCTGTGCCATCATTG
GCGGGACCTTCACCGTCGCCGGCATCCTGGACTCATGCATCTTACAGCCTCTGAGGCCTGGAAGAAGATCCAGC
TGGGCAAGATGCATTGACGCCACACCCAGCCTAATGGCCGAGGACCCTGGGCATCGCCAGCCTTGCTCCAGTGC
CCTGTCTCCTTTGGCCCTCAATCTGGTCCCAAATCTGGCTGTGTCCCAAAGGGTGTGTGGGAAGTGGGGGGAAG
TAGAGGATGGCTCGATGTTTTGCAGCTACCTCTTTCCCGTGTTTTCTTTTAGACAAATTACACTGCCTGAAGT
TGCAGTTCCCTTTCCCTGGGGAGCCCCAAGAACAGAGTCAGGCAAGGGGTGGGGAGTCCAGGGGAACATCCCAG
AATGCATATCGATCAGCTCTCAGCCAGGCTTCGACAATCTCGCAGCCCCCACTAGGTGGACACATTAATGATTTG
GTTTCTCCCCTGGGCAGCCAACCTGCCCCAGAGGCACCAGACCTGGGCTTTAGCTTTGGGACCAGGCTGCCCAA
AGGTACTCCTTTATACACCCGGCACCTTCCACGAAAGATGGTACTTCCCAAGCAAGCCCCTATGATTTGTCACTA
TAGATGGAATGTGTGGCATGCACATGAGTTGAAATCTTTTATGCATTTTTTTGAAGAAAAAAAAAAAAACAAC
TCTGAGGACATAGGGGATGTCAGTTTCCTATGGAAGAGACACCTCTGACCCGTTATTCTTATAATCAAAATCTGA
AGGGAAAAAATGTTTTAGTTCTTTCCCCACTCGTTGGGTTCAACTAGATTAAAAGGCTGATTTTCAG

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FIGURE 1806

MPFDFRRFDIYRKVPKDLTQPTYTGAIISICCLFILFLFLSELTGFITTEVVNELYVDDPDKDSGGKIDVSLNI
SLPNLHCELVGLDIQDEMGRHEVGHIDNSMKIPLNNGAGCRFEGQFSINKVPGNFHVSTHSATAQPQNPDMTTHVI
HKLSFGDTLQVQNIHGAFNALGGADRLTSNPLASHDYILKIVPTVYEDKSGKQRYSYQYTVANKEYVAYSHTGRI
IPAIWFRYDLSPITVKYTERRQPLYRFITTICAIIGGTFTVAGILDSCIFTASEAWKKIQLGKMH

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FIGURE 1807

ATGGCGTATCACGGCCTCACTGTGCCTCTCATTGTGATGAGCGTGTTCTGGGGCTTCGTCGGCTTCTTGGTGCCT
TGGTTCATCCCTAAGGGTCCTAACCGGGGAGTTATCATTACCATGTTGGTGACCTGTTCAGTTTGCTGCTATCTC
TTAGCTAGTTTGAGCACAGGACATAATCACTTCCCAGGGGCCTGGGTGCACCGCTTTGGTTTCCAACCAAACCAT
GACTCCATGAGCGTGAACCAGGACTATTCTGCTCACCTTGTGTCTGCACACAGTAGGTGCTTAACAAACACCTGG
GGTATCTTCAAGTCCATTCCCTCATCTGACCCTCACAGCAGCCCTCTGAGGAAGGCAGCCTGCACACTGGAGGAG
ACAGGTCTGCACTCAGCCATTCTGAAGACGGTAAAAGTGAGAGCCCTGGATGCCATGGGGGCAAGGACCATATCT
GTTCTGCTTTTTTCTGAAGTCCCTGACCCAATTTGTGCCCGGTACATTGAAGAAGCTCAGGACATGGCTATTATT
TCAATCAAGCTGAAATCTACTGAGCTGAGCTGGCCCAACCAGGAATTCAAGATAAGACAGTAG

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FIGURE 1808A

GAAGCCGCCCCATCCCGCCCCAAGTGGAGGAAGAGTATTACACCATCGCCGAATTCCAGACAACCATCCCAGACGG
CATCAGCTTCCAGGCAGGCCTGAAGGTCGAGGTGATCGAGAAAACTTGAGTGGCTGGTGGTACATTTCAGATTGA
AGATAAGGAAGGGTGGGCCCCGGCCACCTTCATTGACAAGTACAAGAAGACGAGCAACGCGTCGAGACCCAACTT
TCTGGCTCCCCCTGCCCCACGAGGTGACCCAGCTCCGGCTGGGGGAAGCAGCAGCGCTGGAGAACAACACGGGCGAG
CGAAGCCACGGGCCCCCTCCCGCCCCCTGCCTGACGCACCGCATGGTGTCAATGGACTCGGGGTTGCCATGGTCTAA
AGACTGGAAGGGCAGTAAGGATGTCTTGAGGAAGGCATCTTCAGACATGTCTGCGTCAGCAGGCTACGAGGAGAT
CTCAGACCCCGACATGGAGGAGAAGCCAGCCTCCCTCCGCGGAAAGAATCCATCATCAAGTCGGAGGGGGGAGCT
GCTGGAGCGGGAGCGGGAGCGGCAGAGGACGGAGCAGCTCCGGGGCCCCACTCCCAAGCCTCCGGGCGTGATTTT
GCCGATGATGCCAGCCAAACACATCCCTCCAGCCCGGGACAGCAGGAGGCCAGAGCCCCAAACCTGACAAAAGCAG
ACTGTTCCAGCTGAAAAATGACATGGGGCTGGAGTGTGGCCACAAGGTCTTGCCCAAGGAAGTGAAGAAGCCCAA
CCTCCGGCCCCATCTCCAAATCCAAAACCTGACCTGCCAGAGGAGAAGCCAGATGCCACTCCCCAGAATCCCTTCTT
GAAGTCCAGACCTCAGGTTAGGCCAAAACAGCTCCTTCCCCCAAACGGAGCCACCTCAGGGCGAAGACCAAGT
CGACATCTGCAACCTCAGGAGTAAAGCTCAGGCCTGCCAAGTCCCAAGACAAGTCTTGTGGATGGGGAGGGCCC
CCAGGCAGTAGGGGGCCAAGACGTGGCCTTCAGCCGAAGCTTCCTCCAGGAGAGGGGCTGGCCGCGCCCCAGGA
CAGGACGGGCAAACAGGATGGTCTCAGCCCAAAGAGATTTCTGTCAGAGCCCCTCCGAGGCCAGCCAAGACCAC
AGATCCTGTGTCTAAGAGCGTGCCTGTTCTCTCCAAGAGGCTCCCCAGCAGAGACCTGTGGTCCCACCCCGCAG
ACCACCTCCCCCAAAGAAAACCTCTTCGTATCCAGGCCGCTCCAGAGGTCCAGAGTCCACAGTGTGAAGGCCA
CGAAAGCAGGGCAGCTCCCACCCAGGCCGTGCTCTCTCGTCCCTCCAAAAGCCAAACCTTTTTCTCTCCAACCTC
TTTGGGGGGCCAGGATGACACGCGAGGCCAAAGGCAGCCTGGGGCCATGGGGGACCGGCAAGATTGGAGAAAACAG
GGAGAAAGCAGCTGCAGCCTCTGTCCCCAATGCCGACGGCCTGAAGGACTCTTTGTATGTGGCCGTGGCCGACTT
TGAAGGAGACAAAGACACCAGCAGCTTCCAGGAAGGGACAGTGTGTTGAAGTCCGGGAGAAGAACAGCAGTGGCTG
GTGGTTCTGCCAGGTCTGAGCGGAGCCCCCTTCTGGGAAGGGTGGATTCTTCCAACCTATCTCAGAAAGAAGCC
GTAGCCGACTCCCTTTCTGCCTAGAGGGCCCCGTGGTCTTGCTGGCTTTACCCACGTATTTAATACGCCTCTTA
ATTTATCATTCTCCACGCAGCTTCCAAGGCAGACAGACTCTGGGGTACTGTGACTTCTTGCCCTCCATGGGTGGA
GAGTGAGTTTCGGACACCTCGGGCGCCCCCTGGGCCTGATCCCTCCTATCACAGCATCACTGGAGGCTCAGAACCC
ACAGCCTTTGCTTTCTGTCCATGTGAGCATCCCTGCCTTAAGAGAACTCCTCCTGGCCAATGGCATTGCCACCCA
GCAGTGGGACCAAGACTCTCCAAGACCTCCAGGACTGGATCCCATTGCCITGGAGAACTCCAGCAAGGGTCTCTC
ATGGCTTGGACATGGCACAGTAAGGGGCAGCCAACCCAGTCCATGATGACTTTTGCTCCAACCTCTTCATGTTTC
TAAAAGCCAGTGGCTTTATTCACTCCTCCTAAATTGCCTGCTACCAGAAGGAACCTCATCCTGAAGAAATGCAT
TCCATTACAGTTCAGGGAAAGTGTCCCCTTCCCCAAAGCCTCAGGCCCGTGGGCCTCTGAGGTTCCACTGGAT
GCGGCTCCCCCAGGAGTGGGCCTGGAGATCCGCTCAGCCGCCCTGCCTCCCACCTTCTATCTTGGGACCGTGGTC
AGCCCTGAAGGGTGGTTCCAGCCCCGCGTATGCTGCGCTTTGCTGCTGCAGGCTCCGGTCCCTCCAGGGCTTTTC
AATGAGAGTTCCACCCCAACTTGGAGCATTTTCATTTTTGCTACCTAAAGCAAGAATCTCAAAGTTTGTGTTGAA
TAAGAGGCCCATTCACAAGTCGTGCCCTTGTGAGCACCCCTTTGCTGAGTGCCTCGTGGGTGCCAAACACTGTAC
TTGGCGCTTTGCATTTCATGCTTTGACCCTCACAACCTCCCTTTATAGATGAGGAAATTCAGCTCCATGTGCCCA
AGGACACACCAGCCAGGAGGAAGAGGGAAGAGGATTTGAGTCCAGGCCTGCCTGACTTCAGTGCCTGTGCCCTCC
CCTCTGTAAAAGACAAACCAGGCAGGGAAGAGATAGAAGCTGGCTAAGTGGTGGCCAAGTGGCTTCATTGTGAGG
GGGGTGAGGGGGCATTCTGTGGCTGCTCCACACCCACCATCCCTCCAGCCCACAGCAGCCTATACCAAAGGCTGC
CCTGGACTCAACAGCTGCATCTCCATGACAGGAGAATGCCAGGGTCTGTGGTGGTGGTACACAGAGCCCTGTTCCCT
CTTCTAAGCTGTTGCCCTTGGGGAATAGAGCTTATGGAGCAACGGGAGCTGAGGTGGCCTCGAGGGCCAGCCTG
GAGGGCTCTGAGCATAGCATGCAGCGGTCCCATAGGGAGGCAGGTAACCAAGGGCCAGGCAGAGCTGCTTCCCTGT
GCCTCTCCGGCATTGTGTAATGTTTTTTTCTTTTTCACGCACTGCCAAATCTGTTTTCTCCCTTGAAGAAACCCA
GGGCAGATGTGGTCATCTGTCAAACCTGAGGTCTGGAGAGGCATGACTAAATCACTGCAGAAGCAAAATCAGGACC
CAGCATTTCTAGCTCCCAGCCCAGAGTAAGAGAGCAGAGCAGAACCCCTTCCATTCTACCCGACCGAGGCAGCC
CTGCCCTGCCCTGCCCGCCCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCT
GATACTTTTGGACCCACAAAGCCAGTTTTTTGGGGGGATGCTCAGTGTCTACCTGCAGTGCCAAAGTTTTGCTTG
AACAGCCCTCTTCTGCCGCGCTCCAGCTCCACCCCTATCACGTGGGTGCTGGCTGCTTCTGCGTGAGGAGCT
TCCTCTGATCACCTGTAGCATCTTTAGTGCCTTCGTCCAGTCGGCCTGCAATCCCATTTCCAGAGAGGCTTGG

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FIGURE 1808B

GCAGGGCCCCACTTGCCACTTGCCCTGTGCCAGAGCGTTGGGGGCAGATGGCAGCCAGGGGAAGAAGGGAGGTG
GGGAAGGGCCGCCACCGCTTGAGGGTCCCTCCCTTGAGAGGAGGCCCCATGGCAGTTTTCTGAGTTCTTGATC
CACTTTGGTTTAAACAACCTTTTGTGAAGCTATGTGAGATTGACTGCATTTCAAAAGACAAAACACATGTTTTTT
TCTGATTGCTCTTTGCCTTTTACGCGACGCTTTTACAGATACTTTGTGAGTGTCTACTCTGTGCTAGGTGCTGAGTA
GACTGGGATGTGTGTGGCTCCATCCCTGGCTGGAAGAGCTTTGAGTCTGTCTGCTGACTTCACTGAAGGAGTTT
CTCTCTTGCTTCATTCTCTCCCGGGGGTCAGCTGGGTAGGAGCAGACTTGCCCTGCCTTCTCTAGGCAGAA
AGTTTTCTGCAAATGAAAGAATCTGCCATTCTCTTTTGTATGATGATGATGATTATTCTGACATGACCCGCGG
GTACTGAAGCCACAGTCTCTCTGTTCACTGTTCTCTCTTGAAGTCATATCTATGGCCTGAGGACGTCTGTATCC
AGCTCCTTTTCTACAATGGTAGACACTTCCCCAGGCAGTGGGTGGGTGAGGGTGGCCAGTCACTCTCTAGCTG
TCCTTGCCCTGGGGACTTAGATTTACCCCATCCAGGACTGTGGTGCCTATTCTGTGAGCGATTGATGGCGCATATG
CAGAACTCCCTGGAGTCATGGCTCTAGAAAGTGTCCAGGCCCATCGTGACAATGGTGCCAAGCACCGGGCTGGT
GACCAGTGCCTAAACACACACGCTCCTTTAATCCTTACGGCAAGCCTGTGAGGCGGATAGGACCAGCCCTGATCT
ATAGTGAGAAAATTAAGGTTTACAGAGGAGAAGGTCCAAATAGTGGCCAAGCTGGGACTGAGATCTCGAGTTTGGG
TTTGTGTTGGTTTGTGTTGTTGTTCTTTCCCTCGTGTCCATGACTTTTCTCTGCCATTAGCAGGGAAGTGTGCG
GAGGGCTTCCAGGGAATCAAGTGACCTCCTCTGAATTTGCGGTGCCTCTTCCCCCGCCCCCTTGCTCACACATT
TCAGTAGGTACAGGCCAAATGGCAGCCAAAAGGTGGGCAGAGATTTTTTTTTTCTTCCCTCACCCCTGCTTAT
TAACACAATTGTGACAACTACTTTACCTTACATCCCAGGGCAAACGGACAGCTTGCGGTACCTCCAAAATTTGG
AAAACCTGAGTCTAAGACCACCTCTTGATAAAAGAGGCCTTTGCTCACATGTTCTGCTCGGAATCTTTCTTTGC
CATTGGTGGGTGTATGTCGTCCAGCTGAGACTGCGGGAGAGCTGAGCTCCAGCTTAAACCGCTTTTAATGGCCC
TTCCCTACTGGGGGATCGCTGGAGCCCATGCCAGGTTACGGTAGTCATTTTAAACCTCTGCCACAAGGCCACGCC
ATAGAATCAATTTCCAAGTCAATGTTCTTGCCCTAAAATGTTTGCGCCCACTGAGGATTTTATTACCAGGTGGA
AGATGGGGGAACATATGCCACGTTAAAGAGCAAGTGTGAGTGTGCCAGGACTTGAGAAGGACCTTAGGCTGAGG
AGTGGACAGTCTGGTATTTATTTGCTCTCTCCAAGTACCCAGCACAGAGTGGGAAAAAGAAGAACTGCTCCTG
CCTTCCAGTAGCTGGCAACTTGACATCAAGAACAAAACATTCGTAGCTGGACCCCGCTCTTTCATCGTGCCCA
AGTCTTACATGTTGGCTTAAGCTGCCCCCTTGAGGGCGTACCTTTCTCTTTGGACTGTGACAGTGGACACCTAA
CAGCCTGAGCCATGTGTGGCTGTCTTATCCCCCAAGGGTGTCCAGGCCCGTTCTGCAGGGCTGTTGTGTAGACT
GCAGACATCCATACCTCACCACAGACCAAAGATGACCTCGTGTGAGACTGTGGGCTGATGAGAGGTAGAGCAGCA
TGATCGAGGCCTGAGGGTGCAGGGCGCCCTCTCTTGGCCTGGAGGAATTGCTCCTAACTAGAGTAAGTTTCCAC
GAGGGTCCCAGGCAGAGCTGCAGAGCTGGAACCGGAGGCTCCACAGTCTTGCCTGCTCATGGACCTCCTTCAGA
GCACCTTTCTACAGACTGGACTGCCAGCTCCGTGGGGTGGCATCTGGTTTCTGGTGCTATTCTGCCAAGTTATC
GAGCTCCTCCTCATGTTTCAACATTCCATCTTCCCGTTTCTATCCTCGACTCCAAAGTAAGCCTTCTTAGCTCCA
ATCAGGGATGAGGGGCTCAACCTCTTCTGTCTCAAAGAGGCCAAACGCAGTGCCACAGTCGGTAGCCTTCACTT
TTAGATGTCCTATTTCATGTAAAAAAGAAGGTGCCCCCACCAGGCTTACATCAGCAATAAGCAATTCTAATGCAAC
GATGGTGTCCACATTTTACCCAGTGTGTGCCCATGTATGCCTTTGTGCCCGTGTAAATTATTGTTAGCGCCCTT
TCCTTAGAGGGGTGATGATAAACTGTGGCCACCTTGATTACAACCCACATTTCTGCTTTGGGGAGCTTCCAAG
TAACAGGCCATTTCTTACCTCCCTCCAGGAACAGTGGGCACTGCCACCACCTCGTGTCTGCTCATAGGATGACG
CTGGAGATCCCCACACTTACTCTACCCTCTTGGCAAATTGGCATTCCGGTGGTGGTTTTTTGTTTCTTTAACACA
TTAAATAAATGAGTATATAGGATGTGAGGGGAGGGGTGAGAACAACCTAGCTGTAGCATGTGTAGGCTATATACTT
TACCATTGACTTCTTCTCTTTTTTTTTTTTTTAAATAAAAAAAGTGCTTGACTGGTTTCAAGCTTCATCATG

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FIGURE 1809

MDSGLPWSKDWKGSKDVLRKASSDMSASAGYEEISDPDMEEKPSLPPRKESIIKSEGELLERERERQRTEQLRGP
TPKPPGVILPMMPAKHIPPARDSRRPEPKPKDKSRLFQLKNDMGLECGHKVLAKEVKKPNLRPI SKSKTDLPEEKP
DATPQNPFLLKSRPQVRPKPAPSPKTEPPQGEDQVDICNLRSLRPAKSQDKSLLDGEGPQAVGGQDVAFSRSFLP
GEGPGRAQDRTGKQDGLSPKEISCRAPPRPAKTTPVSKSVPLQEAPQQRPVVPPRRPPPPKKTSSSSRPLPE
VRGPQCEGHESRAAPTTPGRALLVPPKAKPFLSNSLGGQDDTRGKGS LGFWGTGKIGENREKAAAASVPNADGLKD
SLYVAVADFEQDKDTSSFQEGTVFEVREKNSSGWWFCQVLSGAPSWEGWIPSNYLRKKP

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FIGURE 1810

TTGGCTGATTGCAATTCTGGCCCAACTCAACCCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTATCT
GAAGTATCATTGGCCTTGAGGAAGAAGACATGCTCTACAGTGCTCAGTCTTTGAGGTCACGAGAAGAGAATGCCT
TCTAGATGCAAAATCACCTCCAAACCAGACCACTTTTCTTGACTTGCCTGTTTTGGCCATTAGCTGCCTTAAACG
TTAACAGCACATTTGAATGCCTTATTCTACAATGCAGCGTGTTTTCCCTTTGCCTTTTTTGCACCTTTGGTGAATTA
CGTGCCTCCATAACCTGAACTGTGCCGACTCCACAAAACGATTATGTACTCTTCTGAGATAGAAGATGCTGTTCT
TCTGAGAGATACGTTACTCTCTCCTTGGAATCTGTGGATTTGAAGATGGCTCCTGCCTTCTCACGTGGGAATCAG
TGAAGTGTTTAGAAACTGCTGCAAGACAAACAAGACTCCAGTGGGGTGGTCAGTAGGAGAGCACGTTTCAGAGGGA
AGAGCCATCTCAACAGAATCGCACCAAACTATACTTTTCAGGATGAATTTCTTCTTTCTGCCATCTTTTGGAATAA
ATATTTTCCTCCTTTCTATGGA

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FIGURE 1811

GTCCCAACATGGCGGCTCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAG
GTGAAGGCGCTTATTCAGGATATCCGTGATTGTTTCAGGACCCCTTAAGTGCTCTTACTGAACTGAATACTAAAGTA
AAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGCCAGTTCTCTATCAAAGGGCATTATTTGGACTGCTTCC
ACATTTTTTTTTTAAGCTAACTTATTCCTTGACAGACTTTTCTTCAACTCAGCATGACTTCAACTCTCCAATACTACA
CCTGTTACCTTCAGTGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAAGAATCAGAGAAACAACCTTCTACTCCAG
GAAGTGGAGAATCACAAAAGCAGATGCTCAGCAATCAGGCCTCATGGAGGAAAGCTAATCTCACCTGCAAAATT
GCAATCGACAATCTAGAGAAAGCAGAACTTCTTCAGGGAGGAGATCTCTTAAGGCAAAGGAAAACCACCAAAGAG
AGCCTGGCCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCCAGCAGGTCCAG
CAGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTCACGAACGATCCTGGATGCAAATGAAGAATTTAAGTCC
ATGTCGGGCACCATCCAGCTGGGCCGGAAGCTTATCACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTC
ATCTTCCTTGCGCTAGCCCTGTTTCTTGCTACGGTCCTCTATATTGTGAAAAAGCGGCTCTTCCATTTTTGTGA
GATCCCAAAGGTGCCAGTTCTGGCCCTTTCAGCTCCTGTTTCAGGATCTGTCCTGGTTCTGAGCTCTAGGCTGC
TAAGCTGAGCCACACACCCCTCCGTTTGCACCAGTTGCCTGCAGGTTGGATGGAACACAGTGCCCCACTTTTCTG
CAAGTAGCTGGCTTGTAAGGGTGAACAGAGCCATGGGAGGAAGGTCTGGCATTGGGATGCCGCCCTGGGGACAT
ACGAACCGCCTCCTTCCACCATTGTGCACTATGGGAGGCCGCTGCTGCGTGGAGCACTTAAAGTCCAGCCTCCAG
GACCGGATGCCCTCCTGTCTCCCGCTCCCATCGTGCCTTAAATGCCAGATCTGGTGGAGGGAAGAGAGAAGAG
GTAGGAAGAAAGGTGATGAAAACCTCGGTCACTTCCTTGAATAAA

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FIGURE 1812

GAGGAGGAGGGAAAAGGCGAGCAAAAAGGAAGAGTGGGAGGAGGAGGGGAAGCGGCGAAGGAGGAAGAGGAGGAG
GAGGAAGAGGGGAGCACAAAGGATCCAGGTCTCCCGACGGGAGGTAAATACCAAGAACCATGTGTGCCGAGCGGC
TGGGCCAGTTCATGACCCTGGCTTTGGTGTGGCCACCTTTGACCCGGCGCGGGGGACCGACGCCACCAACCCAC
CCGAGGGTCCCCAAGACAGGAGCTCCCAGCAGAAAGGCCGCTGTCCCTGCAGAATACAGCGGAGATCCAGCACT
GTTTGGTCAACGCTGGCGATGTGGGGTGTGGCGTGTGTTGAATGTTTCGAGAACAACCTCTTGTGAGATTTCGGGGCT
TACATGGGATTTGCATGACTTTTCTGCACAACGCTGGAAAATTTGATGCCAGGGCAAGTCATTTCATCAAAGACG
CCTTGAAATGTAAGGCCACGCTCTGCGGCACAGGTTTCGGCTGCATAAGCCGGAAGTGCCCGGCCATCAGGGAAA
TGGTGTCCCAGTTGCAGCGGGAATGCTACCTCAAGCAGCAGCTGTGCGCGGCTGCCCAGGAGAACACCCGGGTGA
TAGTGGAGATGATCCATTTCAAGGACTTGCTGCTGCACGAACCCTACGTGGACCTCGTGAACCTGCTGCTGACCT
GTGGGGAGGAGGTGAAGGAGGCCATCACCCACAGCGTGCAGGTTTCAGTGTGAGCAGAACTGGGGAAGCCTGTGCT
CCATCTTGAGCTTCTGCACCTCGGCCATCCAGAAGCCTCCACGGCGCCCCCGAGCGCCAGCCCCAGGTGGACA
GAACCAAGCTCTCCAGGGCCCCACCGGGGAAGCAGGACATCACCTCCCAGAGCCCAGCAGTAGGGAGACTGGCC
GAGGTGCCAAGGGTGAGCGAGGTAGCAAGAGCCACCCAAACGCCCATGCCCGAGGCAGAGTCGGGGGCCCTTGGGG
CTCAGGGACCTTCCGGAAGCAGCGAGTGCGGAAGACGAACAGTCTGAGTATTCTGATATCCGGAGGTGAAATGAAA
GGCCTGGCCACGAAATCTTCTCCACGCCGTCCATTTTCTTATCTATGGACATTCCAAAACATTTACCATTAGA
GAGGGGGGATGTCACACGCAGGATTCTGTGGGGACTGTGGACTTCATCGAGGTGTGTGTTTCGCGGAACGGACAGG
TGAGATGGAGACCCCTGGGGCCGTGGGGTCTCAGGGGTGCCTGGTGAATTCTGCACTTACACGTACTCAAGGGAG
CGCGCCCGCGTTATCCTCGTACCTTTGTCTTCTTCCATCTGTGGAGTCAGTGGGTGTCGGCCGCTCTGTTGTGG
GGGAGGTGAACCAGGGAGGGGCAGGGCAAGGCAGGGCCCCCAGAGCTGGGGCCACACAGTGGGTGCTGGGCCTCGC
CCGAAGCTTCTGGTGCAGCAGCCTCTGGTGCTGTCTCCGCGGAAGTCAGGGCGGCTGGATTCCAGGACAGGAGT
GAATGTAAAAATAAATATCGCTTAGAATGCAGGAGAAGGGTGGAGAGGAGGCAGGGGCCGAGGGGGTGCTTGGTG
CCAACTGAAATTCAGTTTCTTGTGTGGGGCCTTGCGGTTTCAGAGCTCTTGGCGAGGGTGAGGGAGGAGTGTCA
TTTCTATGTGTAATTTCTGAGCCATTGTACTGTCTGGGCTGGGGGGACACTGTCCAAGGGAGTGGCCCCATGA
GTTTATATTTTAACTGCTTCAAATCTCGATTTCATTTTTTTATTTATCCAGTTATATCTACATATCTGTCA
TCTAAATAAATGGCTTTCAAACAAAGCAACTGGGTCAATAAAACCAGCTCAAAGGGGGTTTAAAAAAAAAAAAAC
CAGCCCATCCTTTGAGGCTGATTTTTCTTTTTTTTAAAGTTCTATTTTAAAAGCTATCAAACAGCGACATAGCCAT
ACATCTGACTGCCTGACATGGACTCCTGCCCACCTTGGGGGAAACCTTATACCCAGAGGAAAAATACACACCTGGGG
AGTACATTTGACAAATTTCCCTTAGGATTTTCGTTATCTCACCTTGACCCTCAGCCAAGATTGGTAAAGCTGCGTC
CTGGCGATTCCAGGAGACCCAGCTGGAAACCTGGCTTCTCCATGTGAGGGGATGGGAAAGGAAAGAAGAGAATGA
AGACTACTTAGTAATTTCCATCAGGAAATGCTGACCTTTTACATAAAATCAAGGAGACTGCTGAAAATCTCTAAG
GGACAGGATTTTCCAGATCCTAATTGGAAATTTAGCAATAAGGAGAGGAGTCCAAGGGGACAAATAAAGGCAGAG
AGAGAGAGAGAGAGAGGGAGAGGAAGAAAAGAGAGAGAGAAAAGAGCCTCGTGCC

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FIGURE 1813

MCAERLGQFMTLALVLATFDPARGTDATNPPEGPQDRSSQOKGRSLQNTAEIQHCLVNAGDVGCGVFECFENNS
CEIRGLHGICMTFLHNAGKFDAQGKSFIKDALKCKAHALRHRFGCISRKCPAIREMVSQLQRECYLKHDLCAAAQ
ENTRVIVEMIHFKDLLLLHEPYVDLVNLLTCGEEVKEAITHSVQVQCEQNWGSLCSILSFCTSAIQKPPTAPPER
QPQVDRTKLSRAHHGEAGHHLPEPSSRETGRGAKGERGSKSHPNAHARGRVGGLGAQGPPSGSSEWEDEQSEYSDI
RR

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FIGURE 1814

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTTGTGAGTTGGAAGCTGGGGAGCTCGGCATGGCG
GTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGCCCCGGCTCGATGGCCCCGTGGTGCTCAGTG
AGCAGCGGCCCCGTCGCGCTACGTGCTTGGGATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTCCCTG
GCGCACAGCGCCAAGGTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCCTAGCCTCGGGGTCCCTTCGACAAG
ACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAACAATTATCGGGGACATGGGGATAGTGTG
GACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACGGCGTCTGGAGATAAAACCATTTCGCATCTGG
GATGTGAGGACTACAAAATGCATTGCCACTGTGAACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCCCTGAT
GGGCAGACCATTGCTGTAGGCAACAAGGATGATGTGGTGACCTTTATTGATGCCAAGACACACCGTTCCAAAGCA
GAAGAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTCTTCCTGACAAATGGC
AATGGTTGTATCAACATCCTCAGCTACCCAGAACTGAAGCCTGTGCAGTCCATCAACGCCCATCCTTCCAACCTGC
ATCTGTATCAAGTTTGACCCCATGGGGAGTACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGAT
GTGGATGAGTTAGTGTGTGTTTCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGAT
GGGAAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACAGGGGACAAACTATGG
GAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCGTGGCACCCCAAAGGCCTCTGCTGGCATTTCCTGTGAT
GACAAAGACGGCAAATATGACAGCAGCCGGGAAGCCGGAACCTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGA

GAGGAGGTTGTAGGGAGAGGAGGCCCCGGCAGAGGTCTTCCTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGT
TGGTGGGCACCCTAAATATTTGTAAGTTGGTATAAATTGTAAACGTCTCTGGTCAGGCTGCGCATTTTCGTTCTTT
TGCTTTGTCTGTGTATTAGCTCTTTCCATTCTTTGCCCCAGCATGAGTTAACTCGCGTGGACTCTGCAGTGCGA
GTAGTGACCCAGCATACCTTGTCTCTGACCTCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGC
ATTTGATACAACCTGGACAATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTTAAATAATTA
AAAATATATACATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATGAAAAAAAAAAAAAA
AA

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FIGURE 1815

MAVPAAAMGPSALGQSGPGSMAPWCSVSSGPSRYVLGMQELFRGHSKTREFLAHSKVVHSAVWSCDGRRLASGSF
DKTASVFLLEKDRLVKENNYRGHGDSVDQLCWHPSNPDLFVTASGDKTIRIWDVVRTTKCIATVNTKGENINICWS
PDGQTIAVGNKDDVVTFIDAKTHRSKAEQFKFEVNEISWNNDNNMFFLTNGNGCINILSYPELKPVQSINAHPS
NCICIKFDPMGKYFATGSADALVSLWDVDELVCVRCFSRLDWPVRTLSFSHDGKMLASASEDHFIDIAEVETGDK
LWEVQCESPTFTVAWHPKRPLLAFCDDKDGKYDSSREAGTVKLFGLPND S

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FIGURE 1816

ATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACT
ATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACT
GTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGC
ATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAACAAAATGGAAGTCAGCACTTACA
TTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCGCAATTTCTGGTTGGAATGGTAACAACATGCTGG
AGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGAACCATGC
TGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCGGCCAAATAAGCGCGTGGCTATG
CCCCATGTAATTGGATTGTCCACAGGCTACATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGC
CGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCCTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTTCT
GGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGATATGAGACAC
ACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCAG
AAAGCTCAGATGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAACGGTC
TCAGAACTGTTTGTTCATTTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTACTTTTTAATGGAAACAACCTGA
CCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAAGTTTAATGAG

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FIGURE 1817

GGGTCAGAACACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTGGCCGGGGCCAA
GCAGGAGCCGGCATCATGGATTCCCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGG
GGCAAGGACTTCAATGTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC
CGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGGTACGA
GGCTGGCCGGGACATCCGGGCGGTGGGCGGTGTGGGCTTGGACGGCCAGGCCTGCTCGCCCTCCTGGCACATTCT
CGGTACCCCAATCCCTGGCCGGGAGTGGAGGGCAGAAACCGGAGCTAAGGCGGGTCTAGGGCCCTGGAGTTGAGC
CAGGGGCTGCTGCACGGTCCTGGCACCACGCATGTCCGCCTGTCTGTCCGCCTGTCTGTCCGCCTGCTGCCTCCC
GCCGCCGGCGCTGCGTGCTCGCCCGCACTCGGTCAGCCCTCGGTCCTGCGTGGACTGAGATCGCCACTCCCAAAT
GGGCCCCCTTGAACCTGAGTCGTCCTCTCCCCGTAGCCTCCAAATAGATGTAGGGGGTGGGGTGGGGGTGGGGG
CTGGAGCTGCCGCTGTCCTCTGCTGCAGGCGCCC

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FIGURE 1818

AATGGAGGAGTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGC
GGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAGAAGCT
GCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCCCGGGGAGATGAGGA
CGACATCCCGCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGC
GCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTTGCCGAGGGCCGAGC
ATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACCAGCTGGACTCCACCCCG
TTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCACATCCTGGTGGAGGGGAGACGG
TATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTTCTGCGAGCCATCCTGAGAGGCCTGAAGAAGAAAGG
CATTACCAACCAACACCCATTAGATCCAGGGCATCCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGC
TTTCACGGGTTGAGGCAAGACACTGGTGTTCACGTTGCCCCGTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTT
ACCCCTTCTCAAAGCGCGAGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAGCTGGCCCGGCAGACCCATGG
CATCCTGGAGTACTACTGCCGCCTGCTGCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGG
CATGTCCGTGAAAGAGCAGATGGAGACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCAT
GGATTTGCTGCAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGAT
CGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCTACTTCAAGGGCCAGCGACAGACCCTGCTCTTCAG
TGCCACCATGCCGAAGAAGATTGAGAACTTTGCTAAGAGTGCCCTTGTAAGCCTGTGACCATCAATGTGGGGCG
CGCTGGGGCTGCCAGCCTGGATGTCATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCT
CGAGTGCTGCAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATCCACGA
GTACCTGCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGACCAGGAGGAACGGACTAAGGCCAT
CGAGGCATTCCGGGAGGGCAAGAAGGATGTCCTAGTAGCCACAGACGTTGCCCTCAAGGGCCTGGACTTCCCTGC
CATCCAGCACGTATCAATTATGACATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCG
CTCGGGAAACACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTCAAAGC
GCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCCGTGTGTCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGA
CATTGGAGGAGAGCGCGGCTGTGCTTCTGCGGGGGCCTGGGTATCGGATCACTGACTGCCCCAACTCGAGGC
TATGCAGACCAAGCAGGTGAGCAACATCGGTGCGAAGGACTACCTGGCCCACAGCTCCATGGACTTCTGAGCCGA
CAGTCTTCCCTTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCCTGGAC
AGAATCAGCATTTTCAGCTCAGCTGGCCTGGGATGGGCCAGGCTGGTCTGGCTGCCTGTTCCCTGTGCTCTTCAG
AATTACTGTTTTTTGTTTCTTTTACCCAGCTGCCATTAAAGCCCAAACCTCTAGCCC

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FIGURE 1819

GCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCCGGAACCGGGCTGGGTAGAGTGATGCGGA
CCCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCTCTACTTTCACATCGGAGAGACGGAGAAGAAGT
GCTTTATTGAGGAGATCCCGGACGAGACCATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGG
AGGAGTACCAGCCGGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCATCCTGG
CCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCCTTCCATACCCCTGGTGAGCACCAGATCTGTCTTCACT
CCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAGAGTTCACCTGGACATCCAGGTAGGTGAACATG
CCAATGACTATGCAGAAATTGCTGCTAAAGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAAC
AAGTGGAGCAGATCCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGTGAGAGCA
CCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGGTGTCTGGCAGATGCGGC
ACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTCCAGGCGTCACAACCCATCCTCCCAGGCTGGG
GGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCCTTT

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FIGURE 1820

GCCTCCGCCCCCGCCGCGGACCCCTCCGCGGTACACCTTGACCCAGCGTCTCCCTCTACAAGACGGCCCCGGCCCT
TTGGTGCGCCCCCGCCGCTGACAGCGCCCCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCA
GCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTTCCTCCGCA
TCCTTGCCACCTCACAGGCACCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGC
CCAGGACAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTA
CCAGCCGCCCCGCTGGGCTGTGGACCTGCGTTTGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGA
CCCGGCACAGCCAGCCGGCCACGCCCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGG
TGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCCGTGTGTACCCAGTGCCACAAGGTCATCCGGGGCCGCTACC
TGGTGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGGAAGAGGGTG
GCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGT
GCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTG
CCTGCAAGACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGA
AGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCT
TCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGA
AGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCCCCTTCTGCCCACAGCTGCCGCGGTGGCC
CCTAGCCTGAGGGGCCTGGAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCTGGCTC
CTGGCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCCACCACCACA
GCACACCGGTGCTGGCCACACCAGCCCCCTTTCACCTCCAGTGCCACAATAAACCTGTACCCAGCTG

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FIGURE 1821

AGGTGGAGCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCCGGAACCGGGCTGGGTAGAGTG
ATGCGGACCCCTCCTGCTGGTGTGTGGCTGGCGACGCGCGGAAGCGCGCTCTACTTTCACATCGGAGAGACGGAG
AAGAAGTGCTTTATTGAGGAGATCCCGGACGAGACCATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAG
CAGCGGGAGGAGTACCAGCCGGCCACCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTC
ATCCTGGCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCCTTCCCATAACCCCTGGTGAGCACCAGATCTGT
CTTCACTCCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAGAGTTCACCTGGACATCCAGGTAGGT
GAACATGCCAATGACTATGCAGAAATTGCTGCTAAAGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTG
GTGGAACAAGTGGAGCAGATCCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGT
GAGAGCACCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGGTGTCTGGCAG
ATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTCCCAGGCGTCACAACCCATCCTCCCA
GGCTGGGGGAGAAAGGACCTCCTGGAAGTGAAGTCTTCTGTCAGGAGGACTGGTTTCCAGCCATACCTGTTCTGG
AAGGGAGAGGGGCTGGAGGCACCCACAGGCACAAGCTGAAGGCAGCAGCTTGGCTAATACTGAGCAGGTAGTGGG
GCAAATTCCTGCCCTCTCTCTCTGGCCTCTGGGCCGTTTGGTAGTAATCACCCAGGGGCTGGTAAAGCCCCCTCCT
CTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTGTTGGGGGTGGGGGGAGGGGAATGGG
CAGGCAAGCCAGTCTTCTGTCTTCCTTTGCTAACTTAGGGTTTTGAGCAGGTTGGGGTATGGTGCCCTGTCTATACC
CACCTGCCACCCCTGGGAACCTCACTGTTCTCTCTTTCAGCCTAGACCTGCTGATCCAGGGTGTGTGTGAGTTGAG
GGTGGGTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTACATGGTTGTCCATTC
TGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGCTGGTTGGGGTGGGGCCTGCAGAGTCTTAGT
TACTGATTTCAATTTCAATAAATGTAGGTTTGTACATGAGTTTCCCAATAAAAAAAAAAATG

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FIGURE 1822

MRILLLVWLATRGSAFYFHIGETEKKCFIEEIPDETMVIGNYRTQLYDKQREEYQFATPGLGMFVEVKDPEDKV
ILARQYGSEGRFTFTSHTPGEHQICLHSNSTKFSLFAGGMLRVHLDIQVGEHANDYAEIAAKDKLSELQLRVRQL
VEQVEQIQKEQNYQRWREERFRQTSESTNQRVLWWSILQTLILVAIGVWQMRHLKSFFEAKKL

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FIGURE 1823

AATGGAGGAGTTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGC
GGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAGAAGCT
GCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCCCGGGGAGATGAGGA
CGACATCCCGCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGC
GCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTGGCCGAGGGCCGAGC
ATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACACAGCTGGACTCCACCCCG
TTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCAGGAAGAAATACCACATCCTGGTGGAGGGAGACGG
TATCCACCAACCCATCAAGAGCTTCAAGGAAATGAAGTTTCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGG
CATTCAACACCCAACACCCATTTCAGATCCAGGGCATCCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGC
TTTCACGGGTTTCAGGCAAGACACTGGTGTTCACGTTGCCCGTTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTT
ACCCCTTCTCAAAGCGCGAGGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAGCTGGCCCGGCAGACCCATGG
CATCCTGGAGTACTACTGCCGCTGCTGCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGG
CATGTCCGTGAAAGAGCAGATGGAGACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGGCGCCTCAT
GGATTTGCTGCAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGAT
CGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAGCGACAGACCCTGCTCTTCAG
TGCCACCATGCCGAAGAAGATTCAGAACTTTGCTAAGAGTGCCCTTGTAAGCCTGTGACCATCAATGTGGGGCG
CGCTGGGGCTGCCAGCCTGGATGTTCATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCT
CGAGTGCTGCTCAGAAGACACCCCCGCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATCCACGA
GTACCTGCTGCTCAAGGGGGTTGAGGGCGTAGCCATCCATGGGGGCAAAGACCAGGAGGAACGGACTAAGGCCAT
CGAGGCATTCCGGGAGGGCAAGAAGGATGTCTAGTAGCCACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGC
CATCCAGCACGTTCATCAATTATGACATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCG
CTCGGGAAACACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTCAAAGC
GCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCGCGTGTGTCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGA
CATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTGGGTCTATCGGATCACTGACTGCCCCAAACCTCGAGGC
TATGCAGACCAAGCAGGTCAGCAACATCGGTGCGAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGA
CAGTCTTCCCTTCTCTCCAAGAGGGCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCCTGGAC
AGAATCAGCATTTTCAGCTCAGCTGGCCTGGAATGGGCCAGGCTGGTCTGCTGCTGCTGCTTCCCTGTGCTCTTCAG
AATTACTGTTTTTTGTTTTCTTTTACCCAGCTGCCATTAAAGCCCAAACCTCTAGCCC

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FIGURE 1824

CCCAACGAGGCTCCCTGGAGCCCCGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTC
CTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCCT
CTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCAT
CGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAG
CCTGGGCCTCAGCAGGGCCCAGCCGGTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGACCCCTCCGCG
GTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCGGCCCTTTGGGGCGCCCCCGCCGCTGACAGCGC
CCCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGA
GGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTCCTTCCGCATCCTTGCCCACCTCACAGGCACCGAGTT
CATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCCAGCCCCAGCCTC
ATCTACACCCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCCGCCCTGGGCTGTGGACCC
TGCGTTTGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCCAC
GCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAA
GACTCCCGTGTGTACACAGTGCCACAAGGTCATCCGGGGCCGCTACCTGGTGGCGCTGGGCCACGCGTACCACCC
GGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTT
CTGCCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCAT
GCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGAACAGGGC
CTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAATGCCATGGCTG
TGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTG
TGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGC
CTTCTCTCATGTGTGAGCCCCCTTCTGCCCCACAGCTGCCGCGGTGGCCCCCTAGCCTGAGGGGCCTGGAGTCGTGGC
CCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCCCGAGCCTGGGGCTCCCTGGGCC
CTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCCACCACCACAGCACACCGGTGCTGGCCACACCAGCCCC
CTTTCACCTCCAGTGCCACAATAAACCTGTACCCAGCTG

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FIGURE 1825

MDSFKVVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKIRACGE
RLSLGLSRAQFVQSKPQKASAPAADPPRYTFAPSVSLNKTARPFAGAPPADSAPOQNGQPLRPLVPDASKQRLME
NTEDWRPRPGTGQSRSFRI LAHLTGTEFMQDPDEEHLKKSSQVPRTEAPAPASSTPQEPWPGPTAPSPTSRPPWA
VDPFAFAERYAPDKTSTVLTRHSQPATPTPLQSRISIVQAAAGGVPGGGSNNGKTPVCHQCHKVIRGRYLVALGHA
YHPEEFVCSQCGKVLEEGGFFEEKGAIFCPPCYDVRYAPSCAKCKKKITGEIMHALKMTWHVHCFTCAACKTPIR
NRAFYMEEGVPCERDYEKMFGTKCHGCDFKIDAGDRFLEALGFSWHDTCFVCAICQINLEGKTFYSKKDRPLCK
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FIGURE 1826

GGGGGCGCGCGCCCCGCGCCTCCAGCCCAGCGCTCGGAGCCGCTTTCGCTGCCACTGTCTGCTCCCCGGGCGC
CGCCGCTCCCCCGCAGGCCCGGGCTCTGTCCGCTGGGCGCGCTGCTCGCCCCGGGCCAGGAGAACGAGCT
CGAGGAGGATGCCTGGGCGCGGTGCAAGGTTCCCCCTCTCACC CGCAGCTGTGGAGAGGAGGAAGCGGAAGTAGA
GATGCCCATCTGGAGTGAGTGCAGGACCAGGTCCCGCGCGGCCCCGGGTGAGGCACGCCCGCGCGCCCCGCGCG
CCATGGGAAGGAGCGGGCGCCGCTGCTGTCCCCGCGCGCGCGCACGACTTGAGACCTGCCACGGGCAGCCCC
CGGCCGCGGGTCCCCGAGTGACGCTGGCGGCACCTGAGAGTGTGGCGCGGGCCCCGGGGCCACGCAGCGGAGCCCA
GTGTCCAGTGAAGCGTCTGAGGACCCGCGCCCGTGGCGCGGCCATGGTGATGTCCAGGGCACCTACACGTTCC
TCACGTGCTTCGCGGCTTCTGGCTCATCTGGGGTCTCATCGTCCCTGCTCTGCTGCTTCTGCAGCTTCCTGCGCC
GCCGCTCAAACGGCGCCAGGAGGAGCGACTGCGCGAGCAGAACCTGCGCGCCCTAGAGCTGGAGCCCCCTCGAAC
TCGAGGGCAGTCTGGCCGGGAGTCCCCGGGCTGGCGCGCCCGCAGCCACCACACCGTAGCCGCTGGAGG
CGCCGGCTCACGCGCACTCGCATCCGCACGTGCACGTGCACCCGCTGCTGCACCACGGGCCCGCGCAGCCGCACG
CGCACGCGCACCCACACCCGCACCACCGCGCTCCCGCACCCGCGCCTACGCACCTGTGCGGTGCCGCCACGGC
CCTGGAGCTACCCGCGCCAAGCGGAATCGGACATGTCCAAACCACCGTGTTACGAAGAGGCGGTGCTGATGGCAG
AGCCGCGCGCGCCCTATAGCGAGGTGCTCACGGACACGCGCGGCTCTACCGCAAGATCGTCAGCCCTTCCTGA
GTGCGCGCGACAGCGCGGAGAAGCAGGAGCAGCGCCTCCAGCTACAAGCCGCTCTTCCTGGACCGGGGCTACA
CCTCGGCGCTGCACCTGCCCAGCGCCCCCTCGGCGCGCGCGCCTGCCCAGCCCTCTGCCTGCAGGCCGACCGTG
GCCGCGGGTCTTCCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGCGAGCCCTGGAGCACGGAGCTTGGCGTC
TGCCGGTCTCCATCCCTTGTTTCGGGAGGACTACAGCCGTATAGAGGGGCGCCCGGCGCCCCGGGCCCCACCGGC
GGACTCCTGGCCTGACTGCGGGGCTTTTTAAATGCTTCCCTGGACTGCGGGGAGGGGCGGGGGGAGGGAGGGATT
TCTTATCCCGTTTGTTACATTTTGAGGATAATAAAGGTGTGTGATCTGGTTTGGTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1827

MVMSQGTYTFLTCFAGFWLIWGLIVLLCCFCSFLRRRLKRRQEERLREQNLRALELEPLELEGLAGSPPGLAPP
QPPPHRSRLEAPAHASHPHVHVHPLLHHGPAQPHAHAPHPHHHALPHPPPTHLSVPPRPWSYPRQAESDMSKP
PCYEEAVLMAEPPPPYSEVLTDTRGLYRKIVTPFLSRRDSA EKQEPPPSYKPLFLDRGYTSALHLPSAPRPAPP
CPALCLQADRGRRVFPSWIDSELSSREPLEHGAWRLPVSIPLFGRTTAV

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FIGURE 1828

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGCTCTGCTGCTCCTGGGGTT
CCTGCTGGTGAGCTTGGAGTCAACACTTTTCGATTCCACCTTGGGAAGCCCCCAAGGAGCATAAGTACAAAGCTGA
AGAGCACACAGTCGTTCTCACTGTACCGGGGAGCCCTGCCACTTCCCCTTCCAGTACCACCGGCAGCTGTACCA
CAAATGTACCCACAAGGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCCAACTTTGATCAGGACCAGCG
ATGGGGATACTGTTTGGAGCCCCAAGAAAGTGAAGACCCTGCAGCAAACACAGCCCCCTGCCAGAAAGGAGGGAC
CTGTGTGAACATGCCAAGCGGCCCCACTGTCTCTGTCCACAACACCTCACTGGAAACCACTGCCAGAAAGAGAA
GTGCTTTGAGCCTCAGCTTCTCCGGTTTTTCCACAAGAATGAGATATGGTATAGAACTGAGCAAGCAGCTGTGGC
CAGATGCCAGTGCAAGGGTCTGATGCCCCTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCT
CCATGGGGGTGCTGCCTAGAGGTGGAGGGCCACCGCTGTGCCACTGCCCGGTGGGCTACACCGGACCCTTCTG
CGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAGCTACCGCGGCCTGGCCAGGACCACGCTCTC
GGGTGCGCCCTGTCAGCCGTGGGCCTCGGAGGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAACCTGGGG
ACTGGGCGGCCACGCCTTCTGCCGGAACCCGGACAACGACATCCGCCCCTGGTGCTTCGTGCTGAACCGCGACCG
GCTGAGCTGGGAGTACTGCGACCTGGCACAGTGCCAGACCCCAACCCAGGCGGCGCCTCCGACCCCGGTGTCCCC
TAGGCTTCATGTCCCACTCATGCCCCGCGCAGCCGGCACCGCCGAAGCCTCAGCCCACGACCCGGACCCCGCCTCA
GTCCCAGACCCCGGGAGCCTTGCCGGCGAAGCGGGAGCAGCCGCCTTCCCTGACCAGGAACGGCCCACTGAGCTG
CGGGCAGCGGCTCCGCAAGAGTCTGTCTTCGATGACCCGCGTCTGTTGGCGGGCTGGTGGCGCTACGCGGGGCGCA
CCCCTACATCGCCGCGCTGTACTGGGGCCACAGTTTTCTGCGCCGGCAGCCTCATCGCCCCCTGCTGGGTGCTGAC
GGCCGCTCACTGCCTGCAGGACCGGCCCGCACCCGAGGATCTGACGGTGGTGCTCGGCCAGGAACGCCGTAACCA
CAGCTGTGAGCCGTGCCAGACGTTGGCCGTGCGCTCCTACCGCTTGACAGAGGCCTTCTCGCCCGTCAGCTACCA
GCACGACCTGGCTCTGTTGCGCCTTACAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCTTACGTTACGCC
GGTGTGCCTGCCAAGCGGCGCCGCGCACCCCTCCGAGACCACGCTCTGCCAGGTGGCCGGCTGGGGCCACCAGTT
CGAGGGGGCGGAGGAATATGCCAGCTTCCCTGCAGGAGGCGCAGGTACCGTTCCCTCTCCCTGGAGCGCTGCTCAGC
CCCGGACGTGCACGGATCCTCCATCCTCCCCGGCATGCTCTGCGCAGGGTTCCCTCGAGGGCGGCACCGATGCGTG
CCAGGGTGATTCCGGAGGCCCGCTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCTGCAAGGCATCAT
CAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGCCTACTACCTGGCCTGGAT
CCGGGAGCACACCGTTTCCTGATTGCTCAGGGACTCATCTTCCCTCCTTGTTGATTCCGCAGTGAGAGAGTGGC
TGGGGCATGGAAGGCAAGATTGTGTCCATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGAGGAACTCAA
TAAAGTGCTTTGAAAATGCTGAG

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FIGURE 1829

MRALLLLGFLLVSLESTLSIPPWEAPKEHKYKAEHTVVLTVTGEPCHFPPQYHRQLYHKCTHKGRPGPQPWCAT
TPNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGTCVNMPSGPHCLCPQHLTGNHCQKEKCFEPQLLRFFHKNEIW
YRTEQAAVARCQCKGPDHQCRLASQACRTNPNCLHGGRCLEVEGHRLCHCPVGYTGPFCDVDTKASCYDGRGLSY
RGLARTTSLGAPCQPWASEATYRNVTAEQARNWGLGGHAFCRNPDNDIRPWCFVLNRDRLSWEYCDLAQCQTPTQ
AAPPTPVSPRLHVPLMPAQPAAPPKPQPTTRTPPQSQTGALPAKREQPPSLTRNGPLSCGQRLRKSLSMTRVVG
GLVALRGHPYIAALYWGHSCAGSLIAPCWVLTAAHCLQDRPAPEDLTVVLGQERRNHSCEPCQTLAVRSYRLH
EAFSPVSYQHDLALLRLQEDADGSCALLSPYVQPVCLPSGAARPSETTLCQVAGWGHQFEGAEYYASFLQEAQVP
FLSLERCSAPDVHGSSILPGMLCAGFLEGGTDACQGDSSGGPLVCEQAAERRLTLQGIISWGS GCGDRNKPGVYT
DVAYYLA WIREHTVS

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FIGURE 1830

ATGGCGGCGGAAGGCTGGATTGCGGTTGGGGCTGGGGCCGGCGGTGCCTGGGAAGGCCTGGGCTTCTCGGCCCC
GGCCCTGGCCCCACTACACCTCTCTTTCTTCTTTGTTGTTGGGGTCTGTGACTGCGGATATAACTGACGGCAAC
AGTGAACATCTCAAGCGGGAGCATTGCTCATTAAAGCCCTACCAAGGGGTCGGTTCCAGCTCTATGCCCTCTGG
GACTTCCAGGGCAGCACTATGCTCACGAGCCAGTACGTACGTCTGACCCCTGACGAGCGCAGCAAAGAGGGCTCT
ATCTGGAACCAACAGCCGTGCTTCCTCAAAGACTGGGAAATGCACGTCCACTTCAAAGTCCACGGCACAGGGAAG
AAGAACCTCCATGGAGACGGCATCGCCTTGTGGTACACCCGGGACCGCCTCGTGCCAGGGCCTGTGTTTGAAGC
AAAGATAACTTCCACGGCTTAGCCATCTTCCTGGACACCTACCCCAATGATGAGACCACTGAGCGCGTGTTCCTCG
TACATCTCGGTGATGGTGAACAATGGCTCCCTGTCTACGACCACAGCAAGGATGGGCGCTGGACCGAGCTGGCG
GGCTGCACGGCTGACTTCCGCAACCGCGATCACGACACCTTCCTGGCTGTGCGCTACTCCCGGGGCCGTCTGACG
GTGATGACCGACCTGGAGGACAAGAACGAGTGAAGAAGTGCATTGACATCACGGGAGTGCGCCTGCCACCGGC
TACTACTTCCGGGGCCTCCGCCGGCACCGGCGACCTGTCTGACAATCATGACATCATCTCCATGAAGCTGTTCAG
CTGATGGTGGAGCACACGCCCAGCAGGAGAGCATCGACTGGACCAAGATCGAGCCCAGCGTCAACTTCCTCAAG
TCGCCCCAAGACAACGTGGACGACCCACGGGGAACCTCCGCAGCGGGCCCTGACGGGGTGGCGGGTGTTCCTG
CTGCTGCTGTGCGCTCTCCTGGGCATCGTTGTCTGCGCCGTGGTGGGGCCGTGGTGTTCAGAAGCGGCAGGAG
CGGAACAAGCGCTTCTACTGAGTGGCGCCTCCGGCGGGCCTGTCCCTGGGCCCAGGAGCCAATGTGAACTTTTT
TTTTTACCGGGATTATAAAAGAACAACAAGATGACCTTATTTCTTAACTGTTTCAAATAAATGATTAAAGTATTT
TCATACATTTTGCTTCTTGCCCAGCAGGGACAGGTGGCAGAGCCGAGGCTTAGGGTCTGGCACCCCCACAGCTG
GAGACGGAGGCTCTCCTGGGGCTGGTGTCTCAGGAGCAGGGGTCTGTGTCTACAGATGGGCTGTGGCCCTGCAG
GCAGCTGTTGAACACTGGAGGGTCCCCCGGACCACACTGGGGTGGGCTCCTGAGGAC

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FIGURE 1831

MAAEGWIWRWGWGRRCLGRPGLLGPGPGPTTPLFLLLLLGSVTADITDGNSEHLKREHSLIKPYQGVGSSSMPLW
DFQGSTMLTSQYVRLTPDERSKEGSIWNHQPCFLKDWEMHVHFKVHGTGKKNLHGDGIALWYTRDLVPGPVFGS
KDNFHGLAIFLDITYPNDETTERVFPYISVMVNNGSLSDHSDGRWTELAGCTADFRNRDHDTFILAVRYSRGRLT
VMTDLEDKNEWKNCIDITGVRLPTGYFFGASAGTGDLSDNHDIIISMKLFQLMVEHTPDEESIDWTKIEPSVNFLK
SPKDNVDDPTGNFRSGPLTGWRVFLLLLALLGIVVCAVVGAVVFQKRQERNKRFY

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FIGURE 1832

GGCACGAGGGCTTGCTCCGGCCGGCACCCCTAGGCCGGCCCGCCGCCAGCTGTGCGCCGACATGGAACCCTTGGCCA
GCAACATCCAGGTCCTGCTGCAGGCGGCCGAGTTCCTGGAGCGCCGTGAGAGAGAGGCCGAGCATGGTTATGCGT
CCCTGTGCCCCGATCGCAGTCCAGGCCCCATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCGCGCAGG
ACAGCGGGCGGTCAGTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCTGA
AGCAGCAGATGCCCCCTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACA
TCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGC
AGCGGCAGCTGGAGCAGCTCCGGGGGCTGGCAGGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACT
CCTCAGGCCTCTCCTCTGAGCGCTCAGACTCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGTTG
GGGGTGAGGCCGAGCTGCTGCGGGGCTTCGTGCGCCGGCCAGGAGCACAGCTACTCGCACGGCGGCGGGCGCCTGGC
TATGATGTTCCTCACCCAGGGCGGGCCTCTGCCCTCTACTCGTGCCAGGCCCACTTGCCAGGCAGGAGCCCTCCC
CAAGCCTTCAGGGCTGCTCGGAGTCACCTGTTGGAATGGACTAAAAGGACCCTTGTGTGGGAACAGGTGCTCCCC
AAACACCCTGCTGCTGGCTGCCAGGCAGGCCCTCTGGAAGGGAAGGGGCAGGACTCATCAGGACCTCCCTGGACC
CCTGCAGGGCAGGCAGCTTGGGCCCCGAGCCCAAGCATTGCGTCTGCTGCCCCCAAGGGGACAGGAAGCCTCTTG
GGCCTCTTCCCTTCTGACAAAGGCCCCCTGCCTTTGCCTCACATAAACTGTACAGTATTTTCATTAAAAGCCTC
TTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1833

MEPLASNIQVLLQAAEFLERREREAEHGYASLCPHRSPGPIHRRKKRPPQAPGAQDSGRSVHNELEKRRRAQLKR
CLERLKQQMPLGADCARYTTLSLLRRARMHIQKLEDQEQRARQLKERLRSKQQSLQRQLEQLRGLAGAAERERLR
ADSLDSSGLSSERSDSDQEELEVDSVLFVGGEAELLRGFVAGQEHSYSHGGGAWL

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FIGURE 1834

CAACTCATGGCGGCGGCGGCGGCGGCGGCGGCGGCGAGCTGCTTGGGCGCGGTGCGGTGGTGACTGAGCTACGAGCCTGGCG
GCGGGTGTGCGCCGAGCCCCGGCCCCGGCCCCGGCCCTCGCGTGCCCTCCCAGGCTCCGCACCCCTGATGCTGCGCGG
GTGCTGAGCCCGCTTCGGCCGGGACGATGGTGAAGTATTTCTTGGGCCAGAGCGTGCTCCGGAGTTCTTGGGACC
AAGTGTTGCGCCGCTTCTGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACC
GGGAGGTGACCCCTGACCAGAACTGCTGTCCCGGCGACTCCTGACCAAGACCAACAGGATGCCACGCTGGGCGG
AGCGACTATTTCTTGCCAATGTTGCTCACTCGGTGTACGTCTTGAGGACTCTATTGTGGACCCACAGAATCAGA
CCATGACTACCTTACCTGGAAACATCAACCACGCCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGA
ACTCTGACAAACAGTGGCTGGACTGAAATCCGCCGGGAAGCCTGGGTCTCTCTAGCTTATTTGGTGTCTCCAGAG
CTGTCCAGGAATTTGGTCTTGCCCCGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGG
CTAAGCTGCAAGGCGAGGCCCCCTCCAAAACACTTGTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAAAGGAGA
CGGCACTGGCAGCTACAGAGAAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAAC
AGTTTGTGTAGCCAGTCTACCACCACCACAGCACCCAGACAGCTAGGCTTAGCCCTCTGCCCTCCCTTCATTG
TACTTTATCATTAAAAATCAACTTCCAGCCCTGTCTGCTGTCTACGTGGTGGGTTGTGGGGATGCAGTTTGGCAT
CTGCAGTACACCAAGCACATGATTATGTCTGTAGCCAGGTCTGCTTATTCTCCCATTTGGGCAGCTGAGGACCGAG
GCACAGAGGTGCGGTGACTTGCCCCGGGGCTCCAGGTAGCCTGCAGGTTAACTGGCGGTAAGTGCTAGACTGTAAG
CCCACAAAGGCGAGGGCTTTTGGTTTTGTCTCTGATGTGTCTCAGTATCTAGCACATAATAGACACTCAATAAA
TACTTGTGAATTCAAA

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FIGURE 1835

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRRLLTKTNRMPRWAERLFPPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDMSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQFV

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FIGURE 1836

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCTGCCGCGTGCAGGGGTGCGGGCCGGCTGGAGCTGGGAGTGAGGCG
GCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGTGAG
AAGGAGATGCGGCTGTCTGCTGGCCCTGTTGGGGGTCTCTGCTGAGTGTGCCTGGGCCTCCAGTCTTGTCCCTGGAG
GCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTG
GCACCTGCTGGCCGTGTACGGGGCTGGAGGGGCCCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGCCGC
TACCTCTGCCTGGCAGGAGCTCCATGATCGTCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCC
AGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCCAGCAAGCACCCCTAC
TGGACACACCCCCAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCCGCTGTCCA
GCTGCAGGCAACCCACGCCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTTCATGGGGAGAACCGCATTGGA
GGCATTTCGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGGCCCTCGGACCGCGGCACATACACC
TGCTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGCACCGG
CCCATCCTGCAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTG
TACAGCGATGCCAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGT
TTCCCCATATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTG
TCAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAATTCCATCGGCCTCTCCTACCAGTCTGCCTGGCTC
ACGGTGTGTCAGAGGAGGAGCCCCACATGGACCGCAGCAGCGCCGAGGCCAGGTATACGGACATCATCCTGTAC
GCGTCGGGCTCCCTGGCCTTGGCTGTGCTCCTGCTGTGGCCGGGCTGTATCGAGGGCAGGCGCTCCACGGCCGG
CACCCCGCCCGCCCGCCACTGTGCAGAAGCTCTCCCGTTCCCTCTGCCCCGACAGTTCTCCTGAGAGTCAGGC
TCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCCTCTCTCCTCCAGCGGCCCGCCTTGCTCGCCGGC
CTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCCCGGGACAGGCTGGTGTCTTGGGAAGCCCCTA
GGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGCATGGACCCTGCCCCGGCCTGACCAAGCCAGC
ACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAGATGGAGGTG
ATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTTGGTGTCTGCACCCAGGAAGGGCCCCCTGTACGTG
ATCGTGGAGTGCGCCGCAAGGGAAACCTGCGGGAGTTCTGCGGGCCCGCGCCCCCAGGCCCCGACCTCAGC
CCCGACGGTCTCGGAGCAGTGAGGGGGCCGCTCTCCTTCCCAGTCTGGTCTCCTGCGCCTACCAGGTGGCCCGA
GGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGGACCTGGCTGCCCCGAATGTGCTGGTGAAGTGAAGGAC
AATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGGCGTCCACCACATTGACTACTATAAGAAAACCAGCAAC
GGCCGCTGCTGTGAAGTGGATGGCGCCCGAGGCCTTGTGTGACCGGGTGTACACACACCAGAGTGACGTGTGG
TCTTTTGGGATCCTGCTATGGGAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAGCTG
TTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACACTGCCCCCAGAGCTGTACGGGCTGATGCGT
GAGTGTGGCAGCAGCGCCCTCCCAGAGGCCTACCTTCAAGCAGCTGGTGGAGGCGCTGGACAAGGTCTGTGCTG
GCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGGACCCCTATTCCCCCTCTGGTGGGGACGCCAGCAGC
ACCTGCTCCTCCAGCGATTCTGTCTTACGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCTTTCGGGTCT
GGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGCAGGCACATAGGCTGGTGGCCTTGGGCCTTGGGGCTCAGCCA
CAGCCTGACACAGTGTCTGACCTTGATAGCATGGGGCCCCCTGGCCCAGAGTTGCTGTGCCGTGTCCAAGGGCCGT
GCCCTTGGCCTTGGAGCTGCCGTGCCTGTGTCTGATGGCCCAAATGTCAGGGTTCTGCTCGGCTTCTTGGACCA
TGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGAGCTGCTATGCTAAACCTCCTGCCTCCCAAT
ACCAGCAGGAGGTTCTGGGCCTCTGAACCCCTTTCCCCACACCTCCCCCTGCTGCTGCTGCCCCAGCGTCTTGA
CGGGAGCATTGGCCCTGAGCCCAGAGAAGCTGGAAGCCTGCCGAAAACAGGAGCAAATGGCGTTTTATAAATTA
TTTTTTTGAATAAA

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FIGURE 1837

MRLLLALLGVLLSVPGPPVLSLEASEEVELEPCCLAPSLEQQEQELTVALGQPVRLCCGRAERGHHWYKEGSRLAP
AGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSNDDDEDPKSHRDLSNRHSYPQQAPYWT
HPQRMEKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVPSDRGTYTCL
VENAVGSIRYNYLLDVLSRPHRPILQAGLPANTTAVVGSDVELLCKVYSDAQPHIQWLKHIVINGSSFGADGFP
YVQVLKTADINSSEVEVLYLRNVSAEDAGEYTCLAGNSIGLSYQSAWLTVLPEEDPTWTAAAPeARYTDIILYAS
GSLALAVLLLLAGLYRGQALHGRHPRPPATVQKLSRFPLARQFSLESGSSGKSSSSLVRGVRLSSSGPALLAGLV
SLDPLDPLWEFPRDRLVLGKPLGEGCFGQVVRAEAFGMDPARPDQASTVAVKMLKDNASDKDLADLVSEMEVMK
LIGRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRARRPPGPDLSPDGPRSSEGPLSFPVLVSCAYQVARGM
QYLESRKCIHRDLAARNVLVTEDNVMKIADFGLARGVHHIDYYKKTSGRLPVKWMapeALFDRVYTHQSDVWSF
GILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCPPELYGLMRECWAAPSQRPTFKQLVEALDKVLLAV
SEELYDLRLTFGPYSPSGGDASSTCSSSDSVFSDPLPLGSSSFPGSGVQT

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FIGURE 1838

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCCTGCCGCGTGCAGGGGTGCGGGCCGGCTGGAGCTGGGAGTGAGGCG
GCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGTGAG
AAGGAGATGCGGCTGTCTGCTGGCCCTGTTGGGGGTCCTGCTGAGTGTGCCTGGGCCCTCCAGTCTTGTCCCTGGAG
GCCTCTGAGGAAGTGAGCTTGAGCCCTGCCTGGCTCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTG
GCACCTGCTGGCCGTGTACGGGGCTGGAGGGGGCCGCCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGCCGC
TACCTCTGCCTGGCACGAGGCTCCATGATCGTCCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCC
AGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCCAGCAAGCACCCCTAC
TGGACACACCCCCAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCGGCTGTCCA
GCTGCAGGCAACCCCCACGCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTTCATGGGGAGAACCGCATTGGA
GGCATTTCGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGCCCTCGGACCGCGGCACATACACC
TGCTTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGCACCGG
CCCATCCTGCAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTG
TACAGCGATGCCCAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGT
TTCCCCATATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTG
TCAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAATTCCATCGGCCTCTCCTACCACTGTGCTGGCTC
ACGGTGTGTCAGGTACTGGGCGCATCCCCACCTCACATGTGACAGCCTGACTCCAGCAGGCAGAACCAAGTCT
CCCACCTTTGCAGTTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCCTCTC
TCCTCCAGCGGCCCCGCCTTGCTCGCCGGCCTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCC
CGGGACAGGCTGGTGCTTGGGAAGCCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGC
ATGGACCCCTGCCCCGCTGACCAAGCCAGCACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGAC
CTGGCCGACCTGGTCTCGGAGATGGAGGTGATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTTGGT
GTCTGCACCCAGGAAGGGCCCCCTGTACGTGATCGTGGAGTGCGCCGCCAAGGGAAACCTGCGGGAGTTCTTGC
GCCCCGGCCCCCAGGCCCCGACCTCAGCCCCGACGGTCTCGGAGCAGTGAGGGGCCGTCTCCTTCCCAGTC
CTGGTCTCCTGCGCCTACCAGGTGGCCCCGAGGCATGCAGTATCTGGAGTCCCAGGAGTGTATCCACCGGGACCTG
GCTGCCCCGAATGTGCTGGTGACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGGCGTCCAC
CACATTGACTACTATAAGAAAACCAGCAACGGCCGCCTGCCTGTGAAGTGGATGGCGCCGAGGCCTTGTGTTGAC
CGGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATCCTGCTATGGGAGATCTTCACCTCGGGGGCTCC
CCGTATCCTGGCATCCCGGTGGAGGAGCTGTTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACAC
TGCCCCCAGAGCTGTACGGGTGATGCGTGAGTGTGACGACGCGCCCTCCAGAGGCCTACCTTCAAGCAG
CTGGTGGAGGCGCTGGACAAGGTCTGCTGGCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGGACCC
TATTCCCCCCTCTGGTGGGGACGCCAGCAGCACCTGCTCCTCCAGCGATTCTGTCTTCAGCCACGACCCCCCTGCCA
TTGGGATCCAGCTCCTTCCCCTTCGGGTCTGGGGTGACAGATGAGCAAGGCTCAAGGCTGTGCAGGCACATAGG
CTGGTGGCCTTGGGCCTTGGGGCTCAGCCACAGCCTGACACAGTGTGCTGACCTTGATAGCATGGGGCCCCCTGGCC
CAGAGTTGCTGTGCCGTGTCCAAGGGCCGTGCCCTTGCCCTTGGAGCTGCCGTGCTGTGCTGATGGCCCCAA
TGTCAGGGTTCTGCTCGGCTTCTTGACCATGGCGCTTAGTCCCCATCCCGGGTTGGCTGAGCCTGGCTGGAGA
GCTGCTATGCTAAACCTCCTGCCTCCCAATACCAGCAGGAGGTTCTGGGCCTCTGAACCCCCCTTCCCCACACCT
CCCCCTGCTGCTGCTGCCCCAGCGTCTTGACGGGAGCATTGGCCCTGAGCCAGAGAAGCTGGAAGCCTGCCGA
AAACAGGAGCAAATGGCGTTTTATAAATTATTTTTTTTGAATAAA

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FIGURE 1839

MRLLLALLGVLLSVPGPPVLSLEASEEVELEPCCLAPSLEQQEQELTVALGQPVRLLCCGRAERGHHWYKEGSRLAP
AGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSNDDDEDPKSHRDLSNRHSYPQQAPYWT
HPQRMKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVPSDRGTYTCL
VENAVGSIRYNYLLDVLERSPHRPILQAGLPANTTAVVGSDEVLLCKVYSDAQPHIQWLKHIVINGSSFGADGFP
YVQVLKTADINSSEVEVLRLNVSAEDAGEYTCLAGNSIGLSYQSAWLTVLPGTGRIPHLTCDSLTPAGRTKSPT
LQFSLESGSSGKSSSSLVRGVRLSSSGPALLAGLVSLDLPLDPLWEFPRDRLVLGKPLGEGCFGQVVRAEAFGMD
PARPDQASTVAVKMLKDNASDKDLADLVSEMEVMKLIGRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRAR
RPPGPDLSPDGPRSSEGPLSFPVLVSCAYQVARGMQYLESRKCIHRDLAARNVLVTEDNVMKIADFGGLARGVHHI
DYYKKTSGRLPVKWMPEALFDRVYTHQSDVWSFGILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCP
PELYGLMRECWAAPSQRPTFKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSGGDASSTCSSSDSVFSDPLPLG
SSSFPGSGVQT

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FIGURE 1840

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCTGTCGGCGGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGIGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGC
CTTCCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGGCAGGAGCCGCCGCGCTCGGCCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
GCGAGTCGCGCGCGGGCTGGCACGGGCGCCGCGGCGGGGGCTGGAGGCGCGACCGCGGCGCCCCGAGCGGGA
ATCAGAACGGCGCCGAGGGCGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTCTGTTGGTG
GCCTGAGCTGGGATACTAGCAAAAAAGATTTAAAGACTATTTTACTAAATTTGGAGAGGTGCTTGACTGTACAA
TAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGA
AGGTCCTAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGG
ACCCGGTGAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCG
AGTTTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTGTGTTTATCA
CCTTTAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATACTGTCAGTGGAAGCAAGTGTGAGA
TCAAGGTGGCCAGCCCAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCCGTGGAAACCGCAACCGAG
GGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTGAGGTTAGTACAACTACGGCAAGAGCCAGCGACGTG
GTGGCCATCAGAATAACTACAAGCCATACTGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTT
TGGATATGGAGTGAACACAATTATGTACCAAATTTAACTTGGCAAATTTCTATTGCCTGTCCCATGTGCATCTT
A'TTTAAATTTCCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCAGAAGCAGGTGGGAGGCTCTGC
TTCCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAAGTG
TCACCTTTTTTTCACCTTTTAATTTTATATTATTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTG
TACTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGG
ATATTGAAGCTATCCAAGCTTTTGAAATAAAATTTAAAAACCCCAAGCCTGGGTGAGTGTGGG

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FIGURE 1841

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCTGTCGGCGGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGC
CTTCCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGCGGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
GCGAGTCGCGCGCGGGGCTGGCACGGGCGCCGCGGCGGGGGCTGGAGGCGCGACCGCGGCGCCCCGAGCGGGA
ATCAGAACGGCGCCGAGGGCGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTTCGTTGGTG
GCCTGAGCTGGGATACTAGCAAAAAAGATTTAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAA
TAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGA
AGGTCCTAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGG
ACCCGGTGAAGAAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCG
AGTTTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCA
CCTTTAAAGAAGAAGAACCCGTGAAGAAGTTCTGGAGAAAAAGTTCCATACTGTCAGTGGAAGCCAGTGTGAGA
TCAAGGTGGCCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGGCCGTGGAAACCGCAACCGAG
GGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTGAGGGTAGTACAACTACGGCAAGAGCCAGCGACGTG
GTGGCCATCAGAATAACTACAAGCCATACTGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTT
TGGATATGGAGTGAACACAATTATGTACCAAATTTAACTTGGCAAACCTTCTATTGCCTGTCCCATGTGCATCTT
ATTTAAAAATTTCCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGTCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCCAGAAGCAGGTGGGAGGCTCTGC
TTCCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAGTG
TCACCTTTTTTTCACCTTTTAATTTTATATTATTTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTG
TACTTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGG
ATATTGAAGCTATCCAAGCTTTTGAAATAAAATTTAAAAACCCCCAAGCCTGGGTGAGTGTGGG

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FIGURE 1842

GAAATGTCTTACGATGATCATTTAGAGGTTTATTTTGAACAACCTGGCAATTCCACGAATGATGGAATAAACATA
TGAAGTAGAAGGACTGGAACCTCCAGAAAAAGTACTTTAAGTTACCTACAGGTGATCCTAGTCAGGTATGAATTG
ATAAGAAATGCCTGCACCTTCCCTCCTTCTATCTTTCCCTTGCCCTACAGAAAATTAAAGGCCAAAACAATGGAC
ATCTACATATTCTTCATTGAGATCAACCAGTGGCTAGCATTGCCACCTTTTGCAGTTTCTTTCTCTTTCCATAA
GTACTTTCTTCTCTGAATCATTGAAAGCAAATGAAAACAGTAGCCTAAAGTGTGAGTTTCAACCAGAAAATAAC
AGCTCTGATTTCTCATGGCTCACACTCTTCTGAAACGACTCGGGTAGAGGCTGAGGAAGGCCGTGTTGTTTGTCT
ACCTGGGACTAGTGGGATGAGAGACTGAGAAAAGAAATAAGACACGGAGACAAAGTACAGAGAAAGAACAGCGGG
CCCAGGAGACCGGCACTCAGCATACGGAGGACCAGCACTGGCACCGGCCTCTGAGTTCCCTCAGTTTATTGATTA
CCATTTTTCAGTGTCTCAGCAAGAGGAATGCGGTAGGAGAGCAGGGTGTGAGCAAGAAAACCTGTGAGCCTTTCTCT
TTCGCTGCTGCGGCCGAGCCATGAGCATGCTCGGGCCTCAGAAGAGGCTCGCCTCTAGTGTCTCTCGCTGTGGC
AAGAAGAAGGTCTGGTTAGACCCAGTGAGACCAATGAAATCGCCAATGCCAACTCCCGTCAGCAGATCCGGAAG
CTCATCAAAGACGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGAAAAACACCTTG
GCCCGCCGGAAGGGCAGGCACGTGGCCATAGGTGAGCAGAAGGGTACAGCCAATGCCCGAATGCCAGAGAAGGTC
ACATGGATGAGGAGAATGACGATTTTTCGCGCGGCTGCTCAGAAGATAACCGTGAATCTAAGAAGATCGATCGCCAC
ACGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAGACAAGCGGATTCTCATGGAACACATCCAC
AAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCGCAGGTCTAAGACCAAGGAA
GCAGGCAAGTGCCCTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGTTTCATCAAGACTTTATCCAAGGAGGAAGAG
ACCAAGAAATAAAAGCTCCCCCTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATGAAAATAAA
ACAAGCCTTAA

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FIGURE 1843

GGCACGAGGCGCCCATCCTGGGAAGGGGCCCGAGTGTGAGAGAGAGACTCCCCACGCCCATCCTGGAAAGGAG
CCCGGAGTGTGAGCTGAGTGGTCCGAGCTATACCTGTGGACATTGGTTTCTCCATTGAAGAGCTGGAGGACCTTT
ACATGGTGTTTAAGGCCAAGCACCTGGCTAGCCAGTACTGGGGGTGCAGCCGCACAATGCGCCGGCCGTGCGGACC
CCAGCCTGCCCTACCTGGAGCAGTACCGGATTGATGCCAGCCAGTTCCGGGAACCTCTTGCCAGCCTGACACCCT
GGGCCTGTGGCTCCACACACCTCTGCTGGCAGGGCGCATGTTTACGGCTCCTGGACGAAAACAAGGACTCGCTGA
TCAACTTCAAGGAGTTCGTGACAGGGATGAGCGGGATGTACCACGGGTACCTGACAGAGAAGCTCAAGGTGCTCT
ACAAGCTACACCTTCCCCCAGCTCTGAGCCCAGAGGAAGCCGAGTCAGCCCTGGAGGCGGCCCATTTATTTACAG
AGGACAGCTCCTCAGAAGAAGCACTACCACAGGAAGCAAGAAGGAAGTGAAGTGAGGAGAGAGGAGAGGAGA
AGGGGACCAGCTCTCCGGACTATCGGCACTACCTTCGAATGTGGGCCAAGGAGAAAGAGGCTCAGAAGGAGACGA
TTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTTATTGAGCTGTGCAAGACGCTTTACAACATGTTTCACTGAAG
ACCCCATGGAGCAGGACCTGTACCACGCCATCGCCACCGTGGCCAGCCTCCTGCTCCGCATCGGAGAGGTGGGGA
AGAAGTTCTCAGCCCGCACAGGCAGGAAGCCCAGGGACTGTGCCACTGAGGAGGACGAGCCACCAGCACCCGAAC
TGCATCAGGACGCAGCCAGGGAGCTTCAGCCCCAGCTGCAGGAGACCCCAAGCCAAAGCAGGCGGAGACACAC
ACCTCGGAACAGCCCCACAGGAGAGCCAGGTGGTGGTGGAGGGGGCAGCGCGAGGGACAGGGCTCACCCCTCCC
AGCTGCTGTCTGACGATGAAACCAAAGACGACATGTCCATGTCTCTCTACTCGGTGGTCAGCACGGGCTCCCTGCG
AATGTGAAGACCTTGCAGACGACACGGTGTGGTGGGCGGGGAGGCCTGCAGCCCCACAGCGCGCATCGGCGGCA
CCGTCGACACCGACTGGTGCATCTCCTTTGAGCAGATCCTGGCCTCCATCCTGACGGAGTCCGTGCTGGTGAACCT
TCTTTGAGAAGAGAGTGGACATTGGACTCAAGATCAAGGACCAAAAGAAAGTGGAGAGACAGTTTACGACCCGCCA
GTGACCATGAGCAGCCTGGAGTTTCCGGCTGATGCCTGCAGCTGTGAGGCCTGGCCCCAAGGTGTATCAGTGGGG
CTGGCCTCATCTCCTCCTGCCTTTCTCCTTATCAGTTTCTCTTTAAAGGTGTGCCCCCTCCTGCTCTCCAGGA
GCAGTGAGTTGTGAGTGGAAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGATTCCCTGGGCCTGCATCTCC
TGGCGCCGGCTGCTTCTGGGCCCAGGAAGAGGCTGTGGCTCCCACCTTCCCTTACACCTGGTGGGAGCCCGCCTCG
CACCAGCTGCACCTGCCTAGCATTAGAGGCTCTCAGATCTGCCCTTGCTTGCCTCATACCTCTGTGCTCCACACT
GCGGCCAGGCCAGCTGAGTCCCTCCATCCGTGGATGCTTTCTGTCAGCTATGTGGTATGGGGGTGCTTCTCGGAGCCT
CTTGTCACAGGTTGGGGGGCATGTGCTTGTGGGCACCAAAGTGATGGAACCCCTCAGGTGCTCTCCGGGAGCCT
GAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTGCACAGAGTGGGCGCTGCGCACAGGCGTGGCTGTA
CACGTGCTCTCAGCTCATCATCCTTTCCAGTAACTTTAAAAAACATCCCTCAGGTCTGATATATTTCTTGA
TTCAATTTCACTTGGCTAGAAATTACACTGTGCTCAATGCCTTAATAAATCCCTGAAAGAAATAAAAAACCACTGTG
TGCAATGCCTTGTGTGGCCCCCAACCACTGCTTAGGCCTCCCAACTTCTCCCCAGGCCAAGTATGGGGCCCTGG
CTGTGTTCTGGAAGTTCAAGACACTTAGTCTCCACAGTGGGTGGAAGAGTGCAAGGTCTGCCAGGTGAGATGGA
GACGCAGAACCTGCTGGTGCAGCTGGGCAGGTCTTGACCAACCTGCATCAGGGGATGCCCTGAGCTCCACAGGT
CTTCATGGGCAGGGGTTGTGGGTCTGGTGAAGGAAGTGCATCCTCAGGCCTGGGCTGTAGCAAGCTGTCTGCCC
TTGGGTTCAAGAACCAGACTGTGGAGCCAAAGGTGACCGCAGGGGGCCCCAGGGCTGGAGCCACAAGGATACCCCT
CACTTTGCATGAGGAGCTGAACTGACCAGTGTCCAGTGTAGCCCCACATGGGGCTGCTCTTGCTTCTACTAA
AAGATACAGCAGTTACCCCTTATCCACAGGGGATACAGTGGATATCTAAAACCAGACCCCAAGTGGATGTCTAA
AACCACAGATAATAACAAACCTTATACATACTGTTTTTCTATGCATACATACTGTGATTAAGTTTATGAATT
AGGCACCTTAAGAGATTGACAACAATAACTAATAATAAATGTAACGGTTATACTGTAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1844

MAGRDP SLPYLEQYRIDASQFRELFASLTPWACGSHTPLLAGRMFRLDENKDSLINFKEFVTGMSGMYHGylT
EKLKVLYKLHLPPALSPEEAESALEAAHYFTEDSSSEEALPQEEQEGSGSEERGEKGTSSPDYRHYLRMWAKEK
EAQKETIKDLPKMNQEQFIELCKTLYNMFSEDPMEQDLYHAIATVASLLLRIGEVGGKFSARTGRKPRDCATEED
EPPAPELHQDAARELQPPAAGDPQAKAGDTHLGTAPQESQVVVEGGSGEGQGPSQLLSDDETKDDMSMSYSV
VSTGSLQCEDLADDTVLVGGEACSP TARIGGTVDTDWCISFEQILASILTESVLVNFFEKRVDIGLKIKDQKKVE
RQFSTASDHEQPGVSG

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FIGURE 1845

GCGCGGCGGCTGCGACCGGGACGGCCCGTTTTCCGCCAGCTCGCCGCTCGCTATGGCGTCGCTCACCGTGAAGGC
CTACCTTCTGGGCAAGGAGGACGCGGCGCGCGAGATTGCGCGCTTCAGCTTCTGCTGCAGCCCCGAGCCTGAGGC
GGAAGCCGAGGCTGCGGCGGGTCCGGGACCCTGCGAGCGGCTGCTGAGCCGGGTGGCCGCCCTGTTCCCCGCGCT
GCGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAGGACGGGGACTTGGTTGCCTTTTCCAGTGACGAGGAATT
GACAATGGCCATGTCTTACGTGAAGGATGACATCTTCCGAATCTACATTAAAGAGAAAAAAGAGTGCCGGCGGGA
CCACCGCCACCCTGTGCTCAGGAGGCGCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGG
GCCTGTGGTAGGAACCCGCTACAAGTGACGCTCTGCCAGACTACGACTTGTGTAGCGTCTGCGAGGGAAAGGG
CTTGACACCGGGGGCACACCAAGCTCGCATTCCCCAGCCCCCTTCGGGCACCTGTCTGAGGGCTTCTCGCACAGCCG
CTGGCTCCGGAAGGTGAAACACGGACACTTCGGGTGGCCAGGATGGGAAATGGGTCCACCAGGAACTGGAGCCC
ACGTCTCTCCTCGTGCAGGGGAGGCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAG
TGTGAATTTCTGAAGAACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATATCGA
TGTGGAGCACGGAGGGAAAAGAAGCCGCTGACCCCCGTCTCTCCAGAGAGTCCAGCACAGAGGAGAAGAGCAG
CTCACAGCCAAGCAGCTGCTGCTCTGACCCCAGCAAGCCGGGTGGGAATGTTGAGGGCGCCACGCAGTCTCTGGC
GGAGCAGATGAGGAAGATCGCCTTGGAGTCCGAGGGGCGCCCTGAGGAACAGATGGAGTCGGATAACTGTTTCAGG
AGGAGATGATGACTGGACCCATCTGTCTTCAAAAGAAGTGGACCCGTCTACAGGTGAACTCCAGTCCCTACAGAT
GCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCCTCCCAGGAGGGACCCACAGGGCTGAAGGAAGCTGCCTTGTA
CCCACATCTCCCGCCAGAGGCTGACCCGCGGCTGATTGAGTCCCTCTCCCAGATGCTGTCCATGGGCTTCTCTGA
TGAAGGCGGCTGGCTCACCAGGCTCCTGCAGACCAAGAACTATGACATCGGAGCGGCTCTGGACACCATCCAGTA
TTCAAAGCATCCCCCGCGTTGTGACCACTTTTGCCACCTCTTCTGCGTGCCCCCTTCTGTCTCATAGTTGTG
TTAAGCTTGCGTAGAATTGCAGGTCTCTGTACGGGCCAGTTTCTCTGCCTTCTTCCAGGATCAGGGGTAGGGTG
CAAGAAGCCATTTAGGGCAGCAAAACAAGTGACATGAAGGGAGGGTCCCTGTGTGTGTGTGTGTGTGATGTTTCCT
GGGTGCCCTGGCTCCTTGCAGCAGGGCTGGGCCTGCGAGACCCAAGGCTCACTGCAGCGCGCTCCTGACCCCTCC
CTGCAGGGGCTACGTTAGCAGCCCAGCACATAGCTTGCCATAATGGCTTTCACCTTCTCTTTTGTTTTAAATGACT
CATAGGTCCCTGACATTTAGTTGATTATTTTCTGCTACAGACCTGGTACACTCTGATTTTAGATAAAGTAAGCCT
AGGTGTTGTCAGCAGGCAGGCTGGGGAGGCCAGTGTGTGGGCTTCCCTGCTGGGACTGAGAAGGCTCACGAAGGG
CATCCGCAATGTTGGTTTCACTGAGAGCTGCCTCCTGGTCTCTTACCACCTGTAGTTCTCTCATTTCCAAACCAT
CAGCTGCTTTTAAAAATAAGATCTCTTTGTAGCCATCCTGTAAATTTGTAAACAATCTAATTAAATGGCATCAGC
ACTTTAACCAAT

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FIGURE 1846

TGCAGCCTCGGCCCCGCGGGCGCCCGCGCGCACCCGAGGAGATGAGGCTCCGCAATGGCACCTTCCTGACGCTG
CTGCTCTTCTGCCTGTGCGCCTTCTCTCGCTGTCTGGTACGCGGCACTCAGCGGCCAGAAAGGCGACGTTGTG
GACGTTTACCAGCGGGAGTTCTTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCAAGCGCTCC
AAGGAGCTCAACCTGGTGTGGACGAGATCAAGAGGGCCGTGTCAGAAAGGCAGGCGCTGCGAGACGGAGACGGC
AATCGCACCTGGGGCCGCCTAACAGAGGACCCCCGATTGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCAC
CTGCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGCGGTGCGCGTGGGC
CAGGGCCGACCGGAGTGTGCGGTGGTGATGGGCATCCCGAGCGTGCGGCGCGAGGTGCACTCGTACCTGACTGAC
ACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTCATCGTGGTGCTGATCGCCGAG
ACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCCCACGGAGATCCATTCTGGGCTC
CTGGAGGTATCTCACCTCCCCCACTTCTACCTGACTTCTCCCGCTCCGAGAGTCCTTTGGGGACCCCAAG
GAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCCTCATGATGTACGCGCAGTCCAAAGGCATC
TACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCACTACCTGAGCACCATGAAGAACTTTGCACTGCAG
CAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGATGTTCAAGTCGCTGGAC
CTGAGCCTGATTGTAGAGTTCACTTCTATGTTCTACCGGGACAAGCCCATCGACTGGCTCCTGGACCATATTCTG
TGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCAACCTGCGGATCCGCTTC
AAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGAACTGAAGGACAAAGAC
TTTGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGAGCCTGAAGACATACCAG
CACTTCACCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTCACCCCTGCCGCGGGGGACTTCATC
CGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGCACTGGGAACATCGAGCACCCGGAGGAC
AAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCTCAGTCAGACAAGGAGGCCCTGCAGGAGGGC
CGCACCGCCACCCTCCGGTACCCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCTTCTACAAGGGAGTGGCA
GAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGACGGACTCCCCTGTGTGG
GTGATTCTGAGCGAGATCTTCTGAAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGTACCCTGTGGCCAGCCCT
GAAGCCCACATTTCTGGGGGTGTCGTCACTGCCGTCCCCGGAGGGCCAGATACGGCCCCGCCCAAAGGGTTCTGC
CTGGCGTCGGGCTTGGGCCGGCCTGGGGTCCGCCGCTGGCCCGGAGGCCCTAGGAGCTGGTGCTGCCCCCGCCCG
CCGGGCCGCGGAGGAGGCAGGCGGCCCCCACTGTGCCTGAGGCCCGGAACCGTTGCGACCCGGCCTGCCCCAG
TCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCGTCTCTGGCGGAACACTGGAATGCATATACTACTT
TATGTGCTGTGTTTTTATTCTTGGATACATTTGATTTTTTACGTAAGTCCACATATACTTCTATAAGAGCGTG
ACTTGTAATAAAGGGTTAATGAAG

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FIGURE 1847

MRLRNGTFLTLLLFCLCAFLSLSWYAALSGQKGDVVDVYQREFLALRDR LHAAEQESLKRSKELNLVLDEIKRAV
SERQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLPTVFHHLPHLLAKESSLQPAVRVGQGRTGVSVMGIPS
VRREVHSYLTDTLHSLISELSPQEKEDSVIVVLIAETDSQYTSAVTENIKALFPTTEIHSGLLEVISPSPHFYPDF
SRLRESFGDPKERVWRWKQNLDYCFMMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFALQQPSEDWMILEFSQL
GFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIRFKPSL FQHVGTHSSL
AGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDFIRFRFFQPLRLERFF
FRSGNIEHPEDKLFNTSVEVLPFDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGVAEGEVDPAFGPLEAL
RLSIQTDSPVWVILSEIFLKKAD

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FIGURE 1848

TTTTCAGAGACTCGCCTGGCAGAGGCCTGGAGCGTCTGCTGCGTGGACTGTGGGCACCGAGCCACCAGGAGGTT
GTTGATCTCATTCTTGCTCACTGGTCCCTGCCAGACTGGTGGTGCCTCTCTACTGTCGGGCAGCCCCACCTCTGT
GCTGCCCCATCCACCTACAGCCCTCATGCCTGGGCCCAGCTGGAGGTTCTGACAGGGGCCCCCTGGGGTGGCATG
CGGACCCTTCAGGGTGGCCAGGCGCAGCACAGGTCTCCAGAGACACAGGCACCAGGGCGTTCAGAGCTAGTCCC
CTCGCTGCTGTTGACTGTCCTTGAGCAGCCCCAGGGCCGGTTTCTCAACCTCATTGCTCACCTGAGCAATGAAG
TGAGGTGGGCTCCTGGAAGTGCAGCAGCCACCCCCGGGGCCATCGTGAGGCTAAGAATCCAGTGCAGGGTGAGC
AACCAGCGACCGCTACAAGGACAGTGAAGAGCTAGCACCAGGACCTTGGGTAGCCCCACCGCTGGAGGGAGCGTG
TGCTGCAAAAAGCAAGAGTGGGCTTTGGAGGCCAACGGATGGAGCGGATTGAGTCTGAGGCTGTTCCAGCCCTTG
CTTAGGATCCACCTACCTAGGTCTGGAAATCGTATTTCCACTTCAGATGCCTTCTCAGAGGATAAAATAACCCCC
GGTGGGGGAGAGTACTGGAAGAGGGCTAATTTCCCTGGTTTTCTCCCCATGAGCATTAGTGTCAGTGTAATTTTA
GAGTGACCCCAGCTATGTCACGTGTGGCAGGCACAAGAACAGATGTCAATGAGCTATTGCAGAGGTGGACACCCA
GATGTGTGCGCTGGCACACTGGAGGGGCGCTAGGGTGGCTCTAGACCGCCCCCTCGTGACGGCTTGCCCTACCAC
CTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGG
AGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGTGGACGAGATCAAGAGGGCCGTGTGAGAAAGGCAGGCGC
TGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCCTAACAGAGGACCCCCGATTGAAGCCGTGGAACGGCTCAC
ACCGGCACGTGCTGCACCTGCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGC
CCGCGGTGCGCGTGGGCCAGGGCCGCACCGGAGTGTGCGTGGTGATGGGCATCCCGAGCGTGCGGCGCGAGGTGC
ACTCGTACCTGACTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCCGAGGAGAAGGAGGACTCGGTTCATCG
TGGTGTGATCGCCGAGACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCCCACGG
AGATCCATTCTGGGCTCCTGGAGGTCTCTCACCTCCCCCACTTCTACCTGACTTCTCCCGCTCCGAGAGT
CCTTTGGGGACCCCCAAGGAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCTCATGATGTACG
CGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCAACTACCTGAGCACCATGA
AGAACTTTGCACTGCAGCAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGA
TGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTCATTCTCATGTTCTACCGGGACAAGCCCATCGACTGGC
TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCA
ACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGA
AACTGAAGGACAAAGACTTTGGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGA
GCCTGAAGACATAACCAGCACTTCACCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTACCCCTG
CCGCGGGGGACTTCATCCGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGAGTGGGAACA
TCGAGCACCCGGAGGACAAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCTCAGTCAGACAAGG
AGGCCCTGCAGGAGGGCCGCACCGCCACCCTCCGGTACCCTCGAGCCCCGACGGCTACCTCCAGATCGGCTCCT
TCTACAAGGGAGTGGCAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
CGGACTCCCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGT
ACCCTGTGGCCAGCCCTGAAGCCCACATTTCTGGGGGTGTGCTCACTGCCGTCCCCGGAGGGCCAGATACGGCCC
CGCCCAAAGGGTTCTGCCTGGCGTCGGGCTTGGGCCGGCCTGGGGTCCGCCGCTGGCCCCGAGGCCCTAGGAGCT
GGTGTGCCCCCGCCCGCGGGCCGCGGAGGAGGCAGGCGGCCCCACACTGTGCCTGAGGCCCCGAACCGTTTCG
CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCCGTCTCTGGCGCGAACACTG
GAATGCATATACTACTTTATGTGCTGTGTTTTTATTCTTGATACATTTGATTTTTTTCACGTAAGTCCACATAT
ACTTCTATAAGAGCGTGACTTGTAATAAAGGGTTAATGAAG

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FIGURE 1849

MSRVAGTRTDVNELLQRWTPRCVRWHTGGARRVALDRPLVTACLPPAGDVVDVYQREFLALRDR LHAAEQESLKR
SKELNLVLDEIKRAVSERQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLPTVFHHLPHLLAKESSLQPAVRV
GQGRITGVSVVMGIPSVRREVHSYLTDTLHSLISELSPQEKEDSVIVVLI AETDSQYTS AVTENIKALFPT EIHSG
LLEVISPSPHFYPDFSRLRESFGDPKERVWRWTKQNLDYCFLLMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFAL
QQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIR
FKPSLFQHVGT HSSLAGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDF
IRFRFFQPLRLERFFFRSGNIEHPEDKLFNTSVEVLPFDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGV
AEGEVDPAFGP LEALRLSIQTDSFVWVILSEIFLKKAD

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FIGURE 1850

TTTTTTTTTTCGTCCTTAGCCACGCAGAAGTCGCGTGTCTAGTTTGTTCGACGCCGGACCGCGTAAGAGACGATG

ATGTTGGGCACGGAAGGTGGAGAGGGATTTCGTGGTGAAGGTCCGGGGCTTGCCCTGGTCTTGCTCGGCCGATGAA
GTGCAGAGGTTTTTTTTCTGACTGCAAAATTCAAATGGGGCTCAAGGTATTTCGTTTCATCTACACCAGAGAAGGC
AGACCAAGTGGCGAGGCTTTTTGTTGAACCTGAATCAGAAGATGAAGTCAAATTGGCCCTGAAAAAGACAGAGAA
ACTATGGGACACAGATATGTTGAAGTATTCAAGTCAAACAACGTTGAAATGGATTGGGTGTTGAAGCATACTGGT
CCAAATAGTCCTGACACGGCCAATGATGGCTTTGTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGAAGAA
ATTGTTCAGTTCTTCTCAGGGTTGGAAATCGTGCCAAATGGGATAACATTGCCGGTGGACTTCCAGGGGAGGAGT
ACGGGGGAGGCCCTTCGTGCAGTTTGCTTCACAGGAAATAGCTGAAAAGGCTCTAAAGAAACACAAGGAAAGAATA
GGGCACAGGTATATTGAAATCTTTAAGAGCAGTAGAGCTGAAGTTAGAACTCATTATGATCCACCACGAAAGCTT
ATGGCCATGCAGCGGCCAGGTCCTTATGACAGACCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGGAGCT
GGCTTTGAGAGGATGAGGCGTGGTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGAT
GGCTATGGATTTGGGTCAGATAGATTGGAAGAGACCTCAATTACTGTTTTTCAGGAATGTCTGATCACAGATAC
GGGGATGGTGGCTCTACTTTCCAGAGCACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACT
GAGAATGACATTTATAATTTTTTTTCCCGCTCAACCCTGTGAGAGTACACATTGAAATTGGTCCTGATGGCAGA
GTAACCTGGTGAAGCAGATGTCGAGTTCGCAACTCATGAAGATGCTGTGGCAGCTATGTCAAAAGACAAAAGCAAAT
ATGCAACACAGATATGTAGAATCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTATGGTAGCCAAATGATGGGAGGCATGGGC
TTGTCAAACCAAGTCCAGCTACGGGGGCCCAGCCAGCCAGCAGCTGAGTGGGGGTACGGAGGCGGCTACGGTGGC
CAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACCTCCAGTGATTTTCAATCAAACATTGCATAGGTA
ACCAAGGAGCAGTGAACAGCAGCTACTACAGTAGTGGAAGCCGTGCATCTATGGGCGTGAACGGAATGGGAGGGT
TGTCTAGCATGTCCAGTATGAGTGGTGGATGGGGAATGTAATTGATCGATCCTGATCACTGACTCTTGGTCAACC
TTTTTTTTTTTTTTTTTTTTCTTTAAGAAAACCTTCAGTTTAAAGTTTCTGCAATACAAGCTTGTGATTTATGCTT
ACTCTAAGTGGAAATCAGGATTGTTATGAAGACTTAAAGCCAGTATTTTTGAATACAATACTCATCTAGGATGT
AACAGTGAAGCTGAGTAACTATAACTGTTAAACTTAAAGTTCCAGCTTTTCTCAAGTTAGTTATAGGATGTACTT
AAGCAGTAAGCGTATTTAGGTAAAAGCAGTTGAATTATGTTAAATGTTGCCCTTTGCCACGTTAAATTGAACACT
GTTTTGGATGCATGTTGAAAGACATGCTTTTTATTTTTTTTGTAAAACAATATAGGAGCTGTGTCTACTATTAAAA
GTGAAACATTTTGGCATGTTTGTAAATTCTAGTTTTCAATTAATAACCTGTAAGGCACGTAAGTTTAAGCTTTTTT
TTTTTTTAAAGTTAATGGGAAAAATTTGAGACGCAATACCAATACTTAGGATTTTGGTCTTGGTGTGTTGTATGAAA
TTCTGAGGCCCTTGATTTAAATCTTTCATTGTATTGTGATTTCCTTTTAGGTATATTGCGCTAAGTGAACCTTGTC
AAATAAATCCTCCTTTTAAAAACTGC

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FIGURE 1851

MMLGTEGGEGFVVKVRGLPWSCSADEVQRRFFSDCKIQNGAQGIRFIYTREGRPSGEAFVELESEDEVKLALKKDR
ETMGHRYVEVFKSNNVEMDWWLKHTGPNSPDTANDGFVRLRGLPFGCSKEEIVQFFSGLEIVPNGITLPVDFQGR
STGEAFVQFASQEI AEKALKKKHKERIGHRYIEIFKSSRAEVRTHYDPPRKLMMQRP GPYDRPGAGRGYNSIGRG
AGFERMRRGAYGGGYGGYDDYNGYNDGYGFGSDRFGRDLNYCFSGMSDHRYGDGGSTFQSTTGHCVHMRGLPYRA
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSKDKANMQHRYVELFLNSTAGASGGAYEHR
YVELFLNSTAGASGGAYGSQMMGGMGLSNQSSYGGPASQQLSGGYGGGYGGQSSMSGYDQVLQENSSDFQSNIA

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FIGURE 1852

CTGCAAGGCGGGCGGCAGGAGAGGTTGTGGTGCTAGTTTCTCTAAGCCATCCAGTGCCATCCTCGTCGCTGCAGCG
ACACCGCTCTCGCCGCCGCCATGACTGAGCAGATGACCCTTCGTGGCACCCCTCAAGGGCCACAACGGCTGGGTAA
CCCAGATCGCTACTACCCCGCAGTTCCCGGACATGATCCTCTCCGCCTCTCGAGATAAGACCATCATCATGTGGA
AACTGACCAGGGATGAGACCAACTATGGAATTCCACAGCGTGCTCTGCGGGGTCCTCCCACTTTGTTAGTGATG
TGGTTATCTCCTCAGATGGCCAGTTTGCCCTCTCAGGCTCCTGGGATGGAACCCCTGCGCCTCTGGGATCTCACAA
CGGGCACCACCACGAGGCGATTTGTGGGCCATAACCAAGGATGTGCTGAGTGTGGCCTTCTCCTCTGACAACCGGC
AGATTGTCTCTGGATCTCGAGATAAAACCATCAAGCTATGGAATACCCTGGGTGTGTGCAAATACACTGTCCAGG
ATGAGAGCCACTCAGAGTGGGTGTCTTGTGTCCGCTTCTCGCCCAACAGCAGCAACCCCTATCATCGTCTCCTGTG
GCTGGGACAAGCTGGTCAAGGTATGGAACCTGGCTAACTGCAAGCTGAAGACCAACCACATTGGCCACACAGGCT
ATCTGAACACGGTGACTGTCTCTCCAGATGGATCCCTCTGTGCTTCTGGAGGCAAGGATGGCCAGGCCATGTTAT
GGGATCTCAACGAAGGCAAACACCTTTACACGCTAGATGGTGGGGACATCATCAACGCCCTGTGCTTCAGCCCTA
ACCGCTACTGGCTGTGTGCTGCCACAGGCCCCAGCATCAAGATCTGGGATTTAGAGGGAAAGATCATTGTAGATG
AACTGAAGCAAGAAGTTATCAGTACCAGCAGCAAGGCAGAACCACCCAGTGCACTTCCCTGGCCTGGTCTGCTG
ATGGCCAGACTCTGTTTGCTGGCTACACGGACAACCTGGTGCGAGTGTGGCAGGTGACCATTGGCACACGCTAGA
AGTTTATGGCAGAGCTTTACAAATA

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FIGURE 1853

MTEQMTLRGTLKGHNGWVTQIATTPQFPDMILSASRDKTIIMWKLTRDETNYGIPQRALRGHSHFVSDVVISSDG
QFALSGSWDGLRLWDLTTGTTTTRRFVGHTKDVLSVAFSSDNRQIVSGSRDKTIKLWNTLGVCKYTVQDESHSEW
VSCVRFSPNSSNPIIVSCGWDKLVKVWNLANCKLKTNHIGHTGYLNTVTVSPDGSILCASGGKDGQAMLWDLNEGK
HLYTLDGGDIINALCFSPNRYWLCAATGPSIKIWDLEGKIIVDELKQEVISTSSKAEPPOCTSLAWSADGQTLFA
GYTDNLVRVWQVTIGTR

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FIGURE 1854

GCGGAGCCCCACGGAGCCCCACGGAGGAGCCCCACGGAGGAGCCCCAGCGTCCGAACGGGCAGACCCCCCTCGAGCCGC
GAAGGAGCCCGAGAAGCAGCCACGATGTGCGGAATCTTTGCCTACATGAACTACAGAGTCCCCCGACGAGGAAG
GAGATCTTTCGAAACCCTCATCAAGGGCTGCAGCGGCTGGAGTACAGAGGCTACGACTCGGCAGGTGTGGCGATC
GATGGGAATAATCACGAAGTCAAAGAAAGACACATTTCAGCTGGTCAAGAAAAGGGGGAAAGTCAAGGCTCTCGAT
GAAGAAGTTTACAAACAAGACAGCATGGACTTAAAAGTGGAGTTTGAGACACACTTCGGCATTGCCACACGCGC
TGGGCCACCCACGGGGTCCCCAGTGTGTCAACAGCCACCCTCAGCGCTCAGACAAAGGCAACGAATTTGTTGTC
ATCCACAATGGGATCATCACAATTACAAAGATCTGAGGAAATTTCTGGAAAGCAAAGGCTACGAGTTTGAGTCA
GAAACAGATACAGAGACCATCGCCAAGCTGATTAAATATGTGTTTCGACAACAGAGAAACTGAGGACATTACGTTT
TCAACGTTGGTCGAGAGAGTCATTTCAGCAGTTGGAAGGTGCATTTCGCGCTGGTTTTTCAAGAGTGTCCACTACCCA
GGAGAAGCCGTTGCCACACGGAGAGGCAGCCCCCTGCTCATCGGAGTCCGGAGCAAATACAAGCTCTCCACAGAA
CAGATCCCTATCTTATACAGGACGTGCACTCTGGAGAATGTGAAGAATATCTGTAAGACACGGATGAAGAGGCTG
GACAGCTCCGCTGCCTGCATGCTGTGGGCGACAAGGCCGTGGAATTTCTTTGCTTCTGATGCAAGCGCTATC
ATAGAGCACACCAACCGGTCATCTTCTGGAGGACGATGACATCGCCGAGTGGCTGATGGGAAACTCTCCATT
CACCGGGTCAAGCGCTCGGCCAGTGATGACCCATCTCGAGCCATCCAGACCTTGAGATGGAAGTGCAGCAAATC
ATGAAAGGTAAGTTTCAGTGCCTTTATGCAGAAGGAGATCTTGAACAGCCAGAATCAGTTTTCAATACTATGAGA
GGTCGGGTGAATTTTGAAACCAACACAGTGCTCCTGGGTGGCTTGAAGGACCATTGAAGGAGATTCGACGATGC
CGACGGCTCATCGTGATTGGCTGTGGAACCAGCTACCACGCTGCCGTGGCTACGCGGCAAGTTTTGGAGGAACTG
ACTGAGCTTCTGTGATGGTTGAACTTGCTAGTGATTTTCTGGACAGGAACACACCTGTGTTCAGGGATGACGTT
TGCTTTTTTCATCAGCCAGTCAGGCGAGACCGCGGACACCCTCCTGGCGCTGCGCTACTGTAAGGACCGCGGCGCT
CTCACCCTGGGCGTCACCAACACCGTGGGCAGCTCCATCTCTCGCGAGACCGACTGCGGCGTCCACATCAACGCA
GGGCCGGAGATCGGCGTGGCCAGCACCAAGGCTTATACCAGTCAGTTCATCTCTCTGGTGATGTTTGGTTTGATG
ATGTCTGAAGACCGAATTTTACTACAAAACAGGAGGCAAGAGATCATCCGTGGCTTGAGATCTTTACCTGAGCTG
ATCAAGGAAGTGCTGTCTCTGGAGGAGAAGATCCACGACTTGGCCCTGGAGCTCTACACGCAGAGATCGCTGCTG
GTGATGGGGCGGGGCTACAACTATGCCACCTGCCTGGAAGGAGCCCTGAAAATTAAAGAGATAACCTACATGCAC
TCAGAAGGCATCCTGGCTGGGGAGCTGAAGCACGGGCCCCCTGGCACTGATTGACAAGCAGATGCCGCTCATCATG
GTCATTATGAAGGATCCTTGCTTCGCCAAATGCCAGAACGCCCTGCAGCAAGTCACGGCCCCGAGGGTGCCTCC
ATTATACTGTGCTCCAAGGACGATACTGAAAGTTCCAAGTTTGCCTATAAGACAATTGAGCTGCCCCACACTGTG
GACTGCCTCCAGGGCATCCTGAGCGTGATTCCGCTGCAGCTGCTGTCTTCCACCTGGCTGTTCTCCGAGGATAT
GACGTTGACTTCCCCAGAAATCTGGCCAAGTCTGTAACTGTGGAATGAGGCTGAGACCGTGACAAGACCATCACC
ACCTTTTCATCTGATTCCAGACCTGTCCCAACAGCAGGGATGCTACATGGGAAGAGAAGTGGACATCCCACATGTT
CTGCGTGCTCCTGTAGAGCTTGACAGCTTCCACGTGCCTTCTACCCAAGTGCTTTTGCTTACAGCAGATACTGTT
TCTCTGTGTCCTGAAGTCGCCAGAGGAGAAGGGAATCATTGTTTACACATGGGGATCAGAGCAGACTTCTCCACT
ACTGTGCAATAGAGATAAGCTCTCTTCAGAGTAACTGTGAACCTTTTATAACCAACACTAGAGTTAGTTTTAA
AGACAAGATATTTATAATGACGACTGTATAGCTTTTAAAGTTATTTTCTAGTATGTGGCTTTCTGTAGCCGTGGT
AACGGCCAAACTGTTTCATCCTAGCTACCCATGCTCTGTGTCCAGGCTTGCTCCTGGCAGGTGGCATTTCATCTCAG
ATGTGAGCACAAGGCATTGGCCCTCTGGACTCCTTTCTCCTTTTCTTTCTCTTAGGCTGCTCCTGAATCCTGT
TCTCTGACATCCGTGGAGCCCCCTCTGCATCCACCTATGCCTCCTATAAGTCCAGTTGAAATCTCAGCCTCCTTC
AACATTTTCTTCTCGTGTGTGGCCACATCCCTCCACTTCTCCAATTCTGTTTAACTGATCAGCGCTCTTTTT
AAGCCCTGGCAGCATTTTGGTCCCTGCTCCTTGCCCATAGTAAACAGCTTGAAATATCCCATGCAAGAGAGTAG
TTTCAAGTGGGCGACTCTGCTCTCTATTTAAAGCGTGCACAATCAAAGTACTATGCAATTTTAGGACAATAAA
GAACATACAGTTCC

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FIGURE 1855

MCGIFAYMNYRVPRTTRKEIFETLIKGLQRLLEYRGYDSAGVAIDGNNHEVKERHIQLVKKRGKV KALDEELYKQDS
MDLKVEFETHFGIAHTRWATHGVPSAVNSHPQRSDDKGNFVVIHNGIITNYKDLRKFLSKGYEFESSETDTETIA
KLIKVFVDNRETEDITFSTLVERVIQQLLEGAFALVFKSVHYPGEAVATRRGSPLLIGVRSKYKLSTEQIPILYRT
CTLENVKNICKTRMKRLDSSACLHAVGDKAVEFFFFASDASAIIEHTNRVIFLEDDDIAAVADGKLSIHRVKRSAS
DDPSRAIQTLQMELOQIMKGNFSAFMQKEIFEQPEVSFNTMRGRVNFETNTVLLGGLKDHLKEIRRCRRLIVIGC
GTSYHAAVATRQVLEELTELPVMVELASDFLDNRNTPVFRDDVCFEISQSGETADTLLALRYCKDRGALTGVGTNT
VGSSISRETDCGVHINAGPEIGVASTKAYTSQFISLVMFGLMMSEDRLQNRREQEIRGLRSLPELIKEVLSLE
EKIHDLALELYTQRSLLVMGRGYNATCLEGALKIKEITYMHSEGILAGELKHGPLALIDKQMPVIMVIMKDPCF
AKCQNALQQVTARQGRPIILCSKDDTESSKFAYKTIELPHTVDCLQGILSVIPLQLLSFHLAVLRGYDVDFPRNL
AKSVTVE

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FIGURE 1856

ATGGAGAACCGAGGAAGAGAAACAGGTTTTGTGGAAGACAAGCACAAAGTCCACGCCTAGGTGTATGGGAAGTGAG
GTCCTCATGGGGCATAGCTACAGAGATCCCTTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAA
GAGGAAGAAGGGGGCTCATGGGGCTGTGGGAACCCAAGCTTCAGCCCAGGAGGAGGGATACGTTTCCACGATAAC
TTCGGCTTTGATGACCTAGTACAAGATTTCAATAGCATCTTCAGCAATATGGGGGCCTGGACCTTGCTTCCCAT
CCTCCTGAACTTCCAGGTTCTGAGTCAGAGACACCTGGTGAGAGACTGCGGGAGGGACAGGCACTTCGAGAATCA
ATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGAGGGGGTCTTGGAGAGTGATGCAAGAAGAGCGTCT
TGGCCCGGTTCTACAGCCCCAGCCCAGATCTACTTCAAGAGCATCTCTGTGACCAAAATCACTAAGCCAGATGGG
ATAGTGGAGGAGCGCTGGACTGTGGTGGACACCCTGGATGATGCCTTCTCCATCCTGGACTTATTCCTAGGATGC
TGGTTCCGGTCCCGGTAG

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FIGURE 1857

ATGGCCCCACAGTGTGGAGAGTGGACGGACAGACAGAAGCAGTGTGTGCAGCCTTGCCTCTCATCAGAGTCACT
GGGAGCAGGATTTCTTTGACCTCGCTGAGTACACTGCGGACGTTGACGGAGTTGGCACTCTACGACTTCTAGAT
GCAGTTAAGACTTGTGGCCTTATCAACTCTGTGAAGTTCTACCAAGCCTCAACAAGTGAACTTTATGGGAAAGTG
CAGGAAATACCCCAGAAGGAGACCACCCCTTTCTATCCCCGGTCACCCCTATGGTGAGAACATGCGTGCACACCGG
AGCACATGTGTGGCGTTATCTGTGGGTGTGGGGGGGGCAGCAAACTCTATGCCTATTGGATTGTGGTGAAC TTC
CGTGAGGCGTATAATCTCTTTGCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAAGAGGAGATCAGTTG
AAGATTTCCGTCTTTTCGATGA

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FIGURE 1858

CTGATGGCATCTTCTAAGCTGAAATGAATGAGTTTCTTACTCAGGAGCTGGCTGAAGATGGCTACTCTGGAGTTG
AGATGCGAGTTACACCAACCAGGACAGAAATCATTGTCCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGG
GCCGGCGGATTTCGGGAAGTACTGCTGTAGTTCAGAAGAGGTTTGGCTCTCCAGGCAGAGTCTCTGCCTTACAAA
GTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGCTATGGTGTGTCGCGGTTTCATCATGGAAACTGGGGCCAAAGGC
TGTGAGGTCGTGGTGTCTGGGAAACTCTGAGGACAGAGAGCTAAATCCATGAAGTTTGTGGA

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FIGURE 1859A

CCGACCAACACCAACACCCAGCTCCGACGCAGCTCCTCTGCGCCCTTGCCGCCCTCCGAGCCACAGCTTTCCTCC
CGCTCCTGCCCCCGCCCCGTCGCCGTCTCCGCGCTCGCAGCGGCCCTCGGGAGGGCCCCAGGTAGCGAGCAGCGACC
TCGCGAGCCTTCCGCACTCCCGCCCCGTTCCCGGCCGCTCCGCCTATCCTTGCCCCCTCCGCTTTCCTCCGCGCC
GGCCCCGCTCGCTTATGCCTCGGCGCTGAGCCGCTCTCCCGATTGCCCGCCGACATGAGCTGCAACGGAGGCTCC
CACCCGCGGATCAACACTCTGGGCGCATGATCCGCGCCGAGTCTGGCCCCGACCTGCGCTACGAGGTGACCAGC
GGCGGGGGGGCACCAGCAGGATGTACTATTCTCGGCGCGGCGTGATCACCGACCAGAACTCGGACGGCTACTGT
CAAACCGGCACGATGTCCAGGCACCAGAACCAGAACCATCCAGGAGCTGCTGCAGAACTGCTCCGACTGCTTG
ATGCGAGCAGAGCTCATCGTGACGCTGAATTGAAGTATGGAGATGGAATACAACCTGACTCGGAGTCGAGAATTG
GATGAGTGTTTTGCCAGGCCAATGACCAAATGGAAATCCTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGC
CAGCCCTGTGATGCTTACCAGAAAAGGCTTCTTCAGCTCCAAGAGCAAAATGCGAGCCCTTTATAAAGCCATCAGT
GTCCCTCGAGTCCGCAGGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTGAGAGTGGCTCTGGCTGGGATGAG
TTCACCAAACATGTACACAGTGAATGTTTGGGGTGGATGAGGCAGCAAAGGGCGGAGATGGACATGGTGGCCTGG
GGTGTGGACCTGGCCTCAGTGGAGCAGCACATTAACAGCCACCGGGGCATCCACAACCTCCATCGGCGACTATCGC
TGGCAGCTGGACAAAATCAAAGCCGACCTGCGCGAGAAATCTGCGATCTACCAGTTGGAGGAGGAGTATGAAAAC
CTGCTGAAAGCGTCCTTTGAGAGGATGGATCACCTGCGACAGCTGCAGAACATCATTAGGCCACGTCCAGGGAG
ATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGACAAGAACACCAACATCGCTCAG
AAACAGGAGGCCTTCTCCATACGCATGAGTCAACTGGAAGTTAAAGAAAAGAGCTCAATAAGCTGAAACAAGAA
AGTGACCAACTTGTCTCAATCAGCATCCAGCTTCAGACAAAATGAGGCCTATATGGACACTCTGCAGACGCAG
TGGAGTTGGATTCTTCAGATCACCAAGTGCATTGATGTTTCATCTGAAAAAATGCTGCCTACTTTCAGTTTTTTG
AAGAGGCGCAGTCTACTGAAGCATACCTGAAGGGGCTCCAGGACTCCATCAGGAAGAAGTACCCCTGCGACAAGA
ACATGCCCCCTGCAGCACCTGCTGGAACAGATCAAGGAGCTGGAGAAAAGAACGAGAGAAAATCCTTGAATACAAGC
GTCAGGTGCAGAACTTGGTAAACAAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGCA
ATAAACCATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGATAAGGGGGATGAGTGTA
TCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCCCGGGAGGCGTTGACATGCTTGTTCCTCTG
TGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTGGACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCCA
TCTTGGCCTCTGTGGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGCATGATTGACATAG
AGAAGATCAGGGCCATGACAATCGCCAAGCTGAAAAAATGCGGCAGGAAGATTACATGAAGACGATAGCCGACC
TTGAGTTACATTACCAAGAGTTTATCAGAAATAGCCAAGGCTCAGAGATGTTTGGAGATGATGACAAGCGGAAAA
TACAGTCTCAGTTCACCGATGCCAGAAAGCATTACCAGACCCCTGGTCATTTCAGCTCCCTGGCTATCCCCAGCACC
AGACAGTGACCACAACCTGAAATCACTCATCATGGAACCTGCCAAGATGTCAACCATAATAAAGTAATTGAAACCA
ACAGAGAAAATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAGATTTCGAGGCAGATAGAGCACTGCG
AGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGACCAGGGATCTTCTACCACATCAGAGTAAAAATTAACG
AGCTTAAGAGTGTGAGAATGATTACAAAGCAATTGCTGAGGTTCTCAACCAGCTTAAAGATATGCTTGCCAACCT
TCAGAGGTTCTGAAAAGTACTGCTATTTACAGAATGAAGTATTTGGACTATTTTCAGAACTGAAAAATATCAATG
GTGTTACAGATGGCTACTTAAATAGCTTATGCACAGTAAGGGCACTGCTCCAGGCTATTCTCCAAACAGAAGACA
TGTTAAAGGTTTATGAAGCCAGGCTCACTGAGGAGGAAAAGTGTCTGCCTGGACCTGGATAAAGTGAAGCTTACC
GCTGTGGACTGAAGAAAATAAAAAATGACTTGAACCTGAAGAAGTCGTTGTTGGCCACTATGAAGACAGAAGTAC
AGAAAGCCCAGCAGATCCACTCTCAGACTTCACAGCAGTATCCACTTTATGATCTGGACTTGGGCAAGTTCGGTG
AAAAAGTCAACAGCTGACAGACCGCTGGCAAAGGATAGATAAACAGATCGACTTTAGGTTATGGGACCTGGAGA
AACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAGTGGCTCTATGATGCTAAACGCC
GCCAGGATTCCCTTAGAATCCATGAAATTTGGAGATTCCAACACAGTCATGCGGTTTTTGAATGAGCAGAAGAACT
TGCACAGTGAAATATCTGGCAAACGAGACAAATCAGAGGAAGTACAAAAAATTGCTGAACCTTTCGCCCAATTCAA
TTAAGGATTATGAGCTCCAGCTGGCCTCATACCTCAGGACTGGAACTCTGCTGAACATACCTATCAAGAGGA
CCATGATTAGTCCCTTCTGGGGTGATTCTGCAAGAGGCTGCAGATGTTTCATGCTCGGTACATTGAACTACTTA
CAAGATCTGGAGACTATTACAGGTTCTTAAGTGAGATGCTGAAGAGTTTGAAGATCTGAAGCTGAAAAATACCA
AGATCGAAGTTTTGGAAGAGGAGCTCAGACTGGCCCGAGATGCCAACTCGGAAAAGTGAATAAGAACAAATTC
TGGATCAGAACCTGCAGAAATACCAGGCAGAGTGTTCCAGTTCAAAGCGAAGCTTGCGAGCCTGGAGGAGCTGA
AGAGACAGGCTGAGCTGGATGGGAAGTCGGCTAAGCAAAATCTAGACAAGTGCTACGGCCAAATAAAGAACTCA

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FIGURE 1859B

ATGAGAAGATCACCCGACTGACTTATGAGATTGAAGATGAAAAGAGAAGAAGAAAATCTGTGGAAGACAGATTG
ACCAACAGAAGAATGACTATGACCAACTGCAGAAAGCAAGGCAATGTGAAAAGGAGAACCCTTGGTTGGCAGAAAT
TAGAGTCTGAGAAAAGCCATCAAGGAGAAGGAGTACGAGATTGAAAGGTTGAGGGTTCTACTGCAGGAAGAAGGCA
CCCGGAAGAGAGAATATGAAAATGAGCTGGCAAAGGTAAGAAACCACTATAATGAGGAGATGAGTAATTTAAGGA
ACAAGTATGAAAACAGAGATTAACATTACGAAGACCACCATCAAGGAGATATCCATGCAAAAAGAGGATGATTCCA
AAAATCTTAGAAAACAGCTTGATAGACTTTCAAGGGAAAATCGAGATCTGAAGGATGAAATTGTCAGGCTCAATG
ACAGCATCTTGCAGGCCACTGAGCAGCGAAGGCGAGCTGAAGAAAACGCCCTTCAGCAAAAGGCCTGTGGCTCTG
AGATAATGCAGAAGAAGCAGCATCTGGAGATAGAAGTGAAGCAGGTCATGCAGCAGCGCTCTGAGGACAATGCCC
GGCACAAGCAGTCCCTGGAGGAGGCTGCCAAGACCATTGAGGACAAAAATAAGGAGATCGAGAGACTCAAAGCTG
AGTTTCAGGAGGAGGCCAAGCGCCGCTGGGAATATGAAAATGAACTGAGTAAGGTAAGAAACAATTATGATGAGG
AGATCATTAGCTTAAAAATCAGTTTGAGACCGAGATCAACATCACCAAGACCACCATCCACCAGCTCACCATGC
AGAAGGAAGAGGATACCAAGTGGCTACCGGGCTCAGATAGACAATCTCACCCGAGAAAACAGGAGCTTATCTGAAG
AAATAAAGAGGCTGAAGAACACTCTAACCCAGACCACAGAGAATCTCAGGAGGGTGGAAAGAAGACATCCAACAGC
AAAAGGCCACTGGCTCTGAGGTGTCTCAGAGGAAACAGCAGCTGGAGGTTGAGCTGAGACAAGTCACTCAGATGC
GAACAGAGGAGAGCGTAAGATATAAGCAATCTCTTGATGATGCTGCCAAAACCATCCAGGATAAAAAACAAGGAGA
TAGAAAGGTTAAAAACACTGATCGACAAAGAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTAC
AAAGGGTCCAGTATGACCTGCAGAAAGCAAACAGTAGTGCGACGGAGACAATAAACAACTGAAGGTTTCAGGAGC
AAGAACTGACACGCCTGAGGATCGACTATGAAAGGGTTTCCAGGAGAGGACTGTGAAGGACCAGGATATCACGC
GGTTCAGAACTCTCTGAAAGAGCTGCAGCTGCAGAAGCAGAAGGTGGAAGAGGAGCTGAATCGGCTGAAGAGGA
CCGCGTCAGAAGACTCCTGCAAGAGGAAGAAGCTGGAGGAAGAGCTGGAAGGCATGAGGAGGTCGCTGAAGGAGC
AAGCCATCAAAATCACCAACCTGACCCAGCAGCTGGAGCAGGCATCCATTGTTAAGAAGAGGAGTGAGGATGACC
TCCGGCAGCAGAGGGACGTGCTGGATGGCCACCTGAGGGAAAAGCAGAGGACCCAGGAAGAGCTGAGGAGGCTCT
CTTCTGAGGTCGAGGCCCTGAGGCGGCAGTTACTCCAGGAACAGGAAAGTGTCAAACAAGCTCACTTGAGGAATG
AGCATTTCCAGAAGGCGATAGAAGATAAAAGCAGAAGCTTAAATGAAAGCAAAATAGAAATTGAGAGGCTGCAGT
CTCTCACAGAGAACCTGACCAAGGAGCACTTGATGTTAGAAGAAGAACTGCGGAACCTGAGGCTGGAGTACGATG
ACCTGAGGAGAGGACGAAGCGAAGCGGACAGTGATAAAAATGCAACCATCTTGGAACCTAAGGAGCCAGCTGCAGA
TCAGCAACAACCGGACCTGGAACCTGCAGGGGCTGATTAATGATTACAGAGAGAGAGGGGAAAATTTGAGACAGG
AAATTGAGAAATTCAAAAGCAGGCTTTAGAGGCATCTAATAGGATTCAGGAATCAAAGAATCAGTGTACTCAGG
TGGTACAGGAAAGAGAGAGCCTTCTGGTGAAAATCAAAGTCCTGGAGCAAGACAAGGCAAGGCTGCAGAGGCTGG
AGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAACAGGCTGAAACAGCGCCTGGAGTGTGAGAAAC
AGCAAAATTCAGAATGACCTGAATCAGTGGAAGACTCAATATTCCCGCAAGGAGGAGGCTATTAGGAAGATAGAAT
CGGAAAGAGAAAAGAGTGAGAGAGAGAAGAACAGTCTTAGGAGTGAGATCGAAAGACTCCAAGCAGAGATCAAGA
GAATTGAAGAGAGGTGCAGGCGTAAGCTGGAGGATTCTACCAGGGAGACACAGTCACAGTTAGAAACAGAACGCT
CCCGATATCAGAGGGAGATTGATAAACTCAGACAGCGCCATATGGGTCCCATCGAGAGACCCAGACTGAGTGTG
AGTGGACCGTTGACACCTCCAAGCTGGTGTGTTGATGGGCTGAGGAAGAAGGTGACAGCAATGCAGCTCTATGAGT
GTCAGCTGATCGACAAAACAACCTTGGACAACTATTGAAGGGGAAGAAGTCAGTGGAAGAAGTTGCTTCTGAAA
TCCAGCCATTCTTTCGGGTGCAGGATCTATCGCTGGAGCATCTGCTTCTCCTAAGGAAAAATACTCTTTGGTAG
AGGCCAAGAGAAAGAAATTAATCAGCCCAGAATCCACAGTCATGCTTCTGGAGGCCCAGGCAGCTACAGGTGGTA
TAATTGATCCCCATCGGAATGAGAAGCTGACTGTGACAGTGCCATAGCTCGGGACCTCATTGACTTCGATGACC
GTCAGCAGATATATGCAGCAGAAAAAGCTATCACTGGTTTTGATGATCCATTTTCAGGCAAGACAGTATCTGTTT
CAGAAGCCATCAAGAAAAATTTGATTGATAGAGAAACCGGAATGCGCCTGCTGGAAGCCCAGATTGCTTCAGGGG
GTGTAGTAGACCTGTGAACAGTGTCTTTTTGCCAAAAGATGTCGCCCTTGGCCCGGGGGCTGATTGATAGAGATT
TGTATCGATCCCTGAATGATCCCCGAGATAGTCAGAAAAACTTTGTGGATCCAGTCACCAAAAAGAAGGTCAGTT
ACGTGCAGCTGAAGGAACGGTGCAGAATCGAACCACATACTGGTCTGCTCTTGCTTTTCAGTACAGAAGAGAAGCA
TGTCTTCCAAGGAATCAGACAACCTGTGACCGTCACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACTG
TCAATGAACTGGAATCTGGTCAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCCTCCAGGGTTCAA
GCTGCATAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTTATGAGGCCATGAAAATTGGCTTAG
TCCGACCTGGTACTGCTCTGGAGTTGCTGGAAGCCCAAGCAGCTACTGGCTTTATAGTGGATCCTGTTAGCAACT

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FIGURE 1859C

TGAGGTTACCAGTGGAGGAAGCCTACAAGAGAGGTCTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCAG
AACGAGCTGTCACTGGGTATAATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAAC
TCATCGAAAAGGGCCACGGTATTGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAGA
GCCATCGTTTTACCAGTTGACATAGCATATAAGAGGGGCTATTTCAATGAGGAACTCAGTGAGATTCTCTCAGATC
CAAGTGATGATACCAAAGGATTTTTTGACCCCAACACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGAT
GCATTAAGGATGAGGAAACAGGGCTCTGTCTTCTGCCTCTGAAAGAAAAGAAGAAACAGGTGCAGACATCACAAA
AGAATACCCTCAGGAAGCGTAGAGTGGTCATAGTTGACCCAGAAACCAATAAAGAAATGTCTGTTCAAGGAGGCCT
ACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAAGTGTGTGAGCAGGAATGTGAATGGGAAGAAATAACCA
TCACGGGATCAGATGGCTCCACCAGGGTGGTCTCTGGTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGATG
CTATTGACAAGGGCCTTGTTGACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTTG
CTGACATGATCTCCTTGAAAAATGGTGTGCGCACAGCAGCAGCATGGGCAGTGGTGTGAGCGATGATGTTTTTA
GCAGCTCCCGACATGAATCAGTAAGTAAGATTTCCACCATATCCAGCGTCAGGAATTTAACCATAAGGAGCAGCT
CTTTTTCAGACACCCTGGAAGAATCGAGCCCCATTGCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCCA
TTACAGAAGGTATAGAGCGGGGCATCGTTGACAGCATCACGGGTGAGAGGCTTCTGGAGGCTCAGGCCTGCACAG
GTGGCATCATCCACCCAACCACGGGCCAGAAGCTGTCACTTCAGGACGCAGTCTCCAGGGTGTGATTGACCAAG
ACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAGGGTGTGAAGGGAAAGAAGAAGATGT
CAGCAGCAGAGGCAGTGAAAGAAAAATGGCTCCCGTATGAGGCTGGCCAGCGCTTCTGGAGTTCCAGTACCTCA
CGGGAGGTCTTGTTGACCCGGAAGTGCATGGGAGGATAAGCACCGAAGAAGCCATCCGGAAGGGGTTTCATAGATG
GCCGCGCCGCACAGAGGCTGCAAGACACCAGCAGCTATGCCAAAATCCTGACCTGCCCCAAAACCAAATTAATAA
TATCCTATAAGGATGCCATAAATCGCTCCATGGTAGAAGATATCACTGGGCTGCGCCTTCTGGAAGCCGCTCCG
TGTCGTCCAAGGGCTTACCCAGCCCTTACAACATGTCTTCGGCTCCGGGGTCCCGCTCCGGCTCCCGCTCGGGAT
CTCGCTCCGGATCTCGCTCCGGGTCCCGCAGTGGGTCCCGGAGAGGAAGCTTTGACGCCACAGGGAATTCTTCT
ACTCTTATTCTACTCATTTAGCAGTAGTTCTATTGGGCACTAGTAGTCAGTTGGGAGTGGTTGCTATACCTTGA
CTTCATTTATATGAATTTCCACTTTATTAAATAATAGAAAAGAAAATCCCGGTGCTTGAGTAGAGTGATAGGAC
ATTCTATGCTTACAGAAAATATAGCCATGATTGAAATCAAATAGTAAAGGCTGTTCTGGCTTTTTATCTTCTTAG
CTCATCTTAAATAAGCAGTACACTTGGATGCAGTGCCTCTGAAGTGCTAATCAGTTGTAACAATAGCACAAATCG
AACTTAGGATTTGTTTCTTCTCTTCTGTGTTTCGATTTTTCATCAATTTCTTTAATTTTGGAAGCCTATAATACAG
TTTTCTATTCTTGAGATAAAAAATTAAATGGATCACTGATATTTTAGTCATTCTGCTTCTCATCTAAATATTTCC
ATATTCTGTATTAGGAGAAAATTACCCTCCCAGCACAGCCCCCTCTCAAACCCCCAACCCAAAACCAAGCATT
TTGGAATGAGTCTCCTTTAGTTTCAGAGTGTGGATTGTATAACCCATATACTCTTCGATGTACTTGTTTGGTTTG
GTATTAATTTGACTGTGCATGACAGCGGCAATCTTTTCTTTGGTCAAAGTTTTCTGTTTATTTTGCTTGTCTATAT
TCGATGTACTTTAAGGTGTCTTTATGAAGTTTGCTATTCTGGCAATAAACTTTTAGACTTTT

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FIGURE 1860

GTCAATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGGAATGACCTGGGAGACAAATAC
AACAGCATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCCAG
GGGTGCGAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCCTCGGGAC
TTCCAGACACTGGAAACTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCG
CCCAGTGCCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGGCCCTTGAACATTCCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAACTCTGCTCCGGA
AACCAGGTTCTGGCTATCCCACTCTTCTCTGGTTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTTGGAGTCACTGAGGGAGTACGTGGAGTGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACG
CCCTCAGAGGCCCGGTGCTGGCAGCTGAGCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCACTGTAAGACTCTG
GCTCTACTTTGGGAGGAACCTCTCTAAAAGGAATTCCCTGGTCTGGCGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGCTGAACGGAATATCTGCAGCAAGTATTCCGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGTCCTGAGCCAAGCGAAAGACGAA
CTTTAGGAACACAGTTGGAGGTCACCTCTCCTGCCAGCTCCCGCACCCCTGCGTTTAGGAGTTCAGTCCCACAGA
GGCCACTGGGTTCCAGTGGTGGCTGTTCAGAAAGCAGAACATACTAAGCGTGAGGTATCTTCTTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAAGTTAAGTTTTCTCTAAGTAAATGTGTAACATCATGGTCAC
TGTGTAAACATTTTCACTGGCGATATATCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCCCTTTGAGAC
TAAATAGCGTTGAGGGAAATGAAATTGCTGGACTATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAG
CACATCCAAAGCATAGTTTACCTGCCACGAGTCTGGAAGGTGGCCTTGTGGCAGTATTGACGTTCCCTCTGAT
CTTAAGGTCACAGTTGACTCAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAAACCCACACCTC
TGGAAGATACCTTCACGGCCGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGT
GATGAAAGCAGCGTTACTTCTGACCGTGCTGAGTAAGAGAATGCTGATGCCATAACTTTATGTGTGATACTTG
TCAAATCAGTTACTGTTTCAGGGGATCCTTCTGTTTCTCACGGGTGAAACATGTCTTTAGTTCCCTCATGTTAACA
CGAAGCCCAGAGCCCACATGAACTGTTGGATGTCTTCTTAGAAAGGGTAGGCATGGAAAATTCCACGAGGCTCA
TTCTCAGTATCTCATTAACTCATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTT
TCCCAGGCCTGGGTATCCAGGGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAAGTAGAGTTCTAGAGTTTCTGATT
CTGTTTCTCAGTAGTCTTTTAGAGGCTTGCTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAA
GAATGGGATGCATTTGATCTCAAGACCAAAGACAGATGTCACTGGGCTGCTCTGGCCCTGGTGTGCACGGCTGTG
GCAGCTGTTGATGCCAGTGTCTCTAACTCATGCTGTCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAG
CACATACAGGCTTAAGCTCTAAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCT
TTGCATCCAACACTCTTCAACCCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAG
GAATCTTAGAAACAAGACCACTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGC
CTTAAAGGAAATCTTTATTAATCACGTATGGTTACAGATAATTCTTTTTTTTAAAAAACCCAACTCCTAGAGA
AGCACAACTGTCAAGAGTCTTGTACACACAACCTTCACTTGTGATCAGAGTCTTGTATTCCAAGAAAATCAAAG
TGGTACAATTTGTTTGTGTACACTATGATACTTTCTAAATAAACTCTTTTTTTTTT

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FIGURE 1861

ATGGACAGGACTGTCATTTCAGAAATACCACACTGTGAATGGCCACAGCTGTGAAGTTAGGAAAGCCCTGTCAAAG
CAAGAGATGGTTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCCTGGAAACTTTGCTGGTGGTCTTAGAAGT
GGTTTCAGTGGGAATAACAACTTTGGTCGTGGAGGAAACTTCCGTGGTCGTGGGGCCTTTGGTGGCAGCCGTGGT
GGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATATGGTAACGATTGA

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FIGURE 1862

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTTCGGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCGCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCGCGTGGTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCGAGCTGTC
TGTTGCATGCGGTTTACGCGAGGCCGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 1863

ACTTCTGGGGCAGCCGTGAGCAGCGGGCACACGGGCAGCCACGAAAGCAGCAGCGAGGGTGGTGCAAACACCTCA
TAACTACACCGAATCCAGTAGCGCCTGGCGCCCCCGGCGCGCAAGGCCGCTCTACTCCGCTCATCTTTGTCCC
AAGTCCTTTCACAGCCTGCCTTCCTCAAACGGCCCCGATGCGCCCCCTCTTTGCCGGAGTAAGCAGACCGCCAGC
AGCCGGCCCCGAGGTCAGTCGACCCTCTCTGGATGCAGGTGCGCGGAAAACCCGGAGCGGAGCATCCCTCGGGC
CGGGAAACGCCCTCGGCGCGCACCCACTGGCGCGCATGCTCAGTCCGCGCGGCTGCGAGTAGGAAGCTCCGC
GCGGCGGCGGGGCGGCGACGGCGACTGGCGGGTGGGAGTGGAGGCCACCGGCTGGCGGGCGGGGGTACAGGGACG
GGGCAGGGGCTCCCCGCTCCAGGTTCTTGAAGCACTTCCGACCGCGAAGCCCGGCGCGAGAAGCGAGCTAACCCA
AGAGCCAACAACGAGCGCGGAGAGGGCAGCGGACTGAGCGGAGCCGCGCCGAGAGCGGGCTCGGAGCCCGGGTC
TCCGCCGCTCGGGACCCGGCTAGGCGGCGGCGGGGGCGGCGATGTTCCACTGCATCCCCCTGTGGCGGTGCAACC
GTCATGTGGAGAGCATCGACAAGCGCCACTGCTCGCTGGTCTACGTCCCCGAGGAGATCTACCGCTATGCCCGGA
GCCTGGAGGAGCTGCTGCTGGACGCCAACCAGCTCCGCGAGCTGCCCGAGCAATTTTCCAGCTAGTCAAATTAC
GAAAGCTTGGACTTAGTGATAATGAAATTCAGCGGCTCCCTCCAGAAATAGCAAACCTTCATGCAGCTGGTGGAA
TAGATGTGTCTCGAAATGAGATTCTGAAATTCAGAAAGCATTTTCTGTAAAGCACTGCAGGTAGCTGACT
TCAGCGGAAACCCACTGACTAGGTTGCCAGAAAGCTTTCCTGAATTACAGAATTTAACAATGTCTTTCTGTAAATG
ACATCTCACTACAGTCTCTACCTGAAAATATTGGCAATCTTTATAACCTGGCTTCACTGGAACCTGAGAGAGAATC
TTCTTACATATCTTCTGACTCTCTTACCCAGCTGCGAAGACTAGAAGAACTTGATTTAGGAAACAATGAAATAT
ATAATTTGAATCAATTGGAGCCCTCTTACATCTTAAAGATCTCTGGTTGGATGGAAATCAACTGTCAGAATTACC
TCAGGAAATAGGAAATCTGAAGAACCTGCTGTGTTTAGATGTCTCTGAAAACAGGTTGGAAAGACTTCCTGAAGA
AATCAGTGGCCTGACTTCATTAACGGATTTAGTCATTTCCCAGAACTTATTAGAAACGATTCCGGATGGCATTGG
AAAATAAAGAACTGTCAATCTTGAAGGTGGATCAGAATAGACTCACACAGTTGCCTGAAGCAGTTGGGGAAATG
TGAAAGTCTCACTGAGTTAGTTCTTACAGAAAATCAGCTCCTGACCCTGCCTAAAAGCATTGGAAAATAAAGAA
GTTGAGCAACTTGAATGCAGACAGAAATAAATTAGTGTCTTACCAAAGAGGTATGTGCTTTTAGAGAAATCAC
ATGATAATAATTATGAAGAAATAATAATACATAAGGGATCAAAAATGTCAAATGCTTTGAAAAGACGCATGT
GTTGTTTTTTTAAAGGTGTGAATCTAAATCTGTGAGTATAGAGCCAACTGGAGGAATTATGTCAAAGAATGATCA
TCAGTAACATTAAGGAGAGTTGGAAAAGGTGAATTTATAGGATTTTAAATGGGAGAAAGAAAGAGATTGACATTT
TGGGTTTGATATACAGAGAATGGTGACACCATTGGCAGAAATTGATAATTTGGGAGTTTGACAGAGGAAGTGGAT
GCCTTTGGGTTTGATTTTTGAATTTAATGTGAAATTAAGCTCCATCCATAAGCAATTGGAATTATAAAAATTGA
TCTTGATGCAACCATATTTCTGGGCAGAGATTTACATTGGGCCATGCTCATGTCTTGATGAGGTTGAACAACT
GTTACAAAGGCATACACATAGAGGAAGGTGAATGGGAAGCTAAAGCCAGCTTCCTAGGACTTTTTTTTTGGTTA
GTAGTCTAAGCACGAGAAAATGAGACATCACCATCTGTTGTGGAGAGTAGCTGTATGGACTGAGAGGCATTTAA
TTCTGGCAAGGGAGGTGGAAATGCTGACAAATGAGGAGGAAGCTTATAGTGGGTCAAACAAGGAGGTGTCTAGTGT
GTTGTTTTTAAAGAAGGCTTACAATTAGCCAGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTG
AGGCAAGAGAATTGCCTGAACCCGGGAGGCTAAGGTTGCAGTGAGCCGAGACCACGCCACTGCACTCCAGCCCGG
GTGACAGAGCGAGACTCTATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAATG

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FIGURE 1864

MFHCIPLWRCNRHVESIDKRHCSLVYVP EEIYRYARSLEELLDDANQLRELPEQFFQLVKLRKLGLSDNEIQRLP
PEIANFMQLVELDVS RNEIPEIPESISFCKALQVADFSGNPLTRLPE SFPELQNLTCLSVNDISLQSLPENIGNL
YNLASLELR ENLLTYLPDSL TQLRRLEELD LGNNEIYNLNQLEPSYI

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FIGURE 1865A

CGGTGCTGGAGAAGTTTGCCTGCGGTTTCGTGAGCGCAGGGTGCGGGCCCCGCCGGCCGCTGCGCGCCCGCTGCC
ATGGCTTTCCGCAGGAGGACGAAAAGTTACCCGCTCTTCAGCCAGGAGTTTCGTATCCACAACCATGCGGACATC
GGCTTCTGCCTGGTGCTCTGCGTCTCATCGGGCTTATGTTTCAGGTCACAGCCAAGACTGCCTTTCTATTTATT
TTACCTCAGTATAACATTAGCGTGCTACAGCAGACAGTGAGACCGTGCACTACCACTATGGCCCTAAGGACCTG
GTCACAATCTTGTTCTACATCTTCATCACCATCATCTTGCAATGCTGTGGTTTCAGGAGTACATTTTAGATAAAATC
AGCAAACGGCTTCATCTCTCCAAAGTCAAACACAGCAAGTTCAATGAATCTGGACAGCTGGTCGTCTTTCATTTT
ACCTCGGTGATTTGGTGCTTCTACGTGGTGGTGACGGAAGGATACTTAACAAACCCAAGAAGCCTCTGGGAAGAC
TACCCGCATGTGCACCTCCCTTCCAGGTGAAGTTTTTCTACCTATGCCAGCTGGCCTACTGGCTGCACGCACTT
CCTGAGCTATACTTCCAGAAGGTACGGAAGGAGGAAATTCCCCGCCAGCTCCAGTATATTTGCCTGTACCTGGTG
CATATAGCTGGAGCATACCTCTTAAACCTGAGCCGCTGGGCTGATCTTGCTGCTGCTGCAGTACTCAACTGAG
TTCCTCTTCCACACGGCTAGACTCTTCTACTTTGCAGATGAAAACAACGAGAACTGTTTCAGTGCCCTGGGCTGCT
GTTTTTGGGGTTACCCGCTCTTCATCCTCACCTTGCCGTGCTGGCCATTGGCTTTGGACTGGCTCGCATGGAA
AACCAGGCATTTGATCCCGAGAAAGGGAACCTCAACACTTTGTTTTGCAGGCTCTGCGTGCTGCTGCTGGTGTGT
GCCGCCAGGCCTGGCTCATGTGGCGCTTCATCCACTCCAGCTGCGGCCTGGCGGAATACTGGAATGAGCAG
AGTGCAAAGCGGAGAGTCCAGCCACACCCAGACTACCAGCCAGGCTCATCAAGAGGGAATCTGGTTACCATGAA
AATGGAGTGGTGAAGGCAGAGAACGGAACCTCCCCACGACTAAGAACTCAAGTCTCCCTAAGGCCAAAGTGCT
AAGAACAGGAATCCTCTTGGTGGGGGCGAGCAGGGGGCAAGGAGCCCAGGCCCTCCCTGCCTCCTCCTTCTT
GCCTGTGATGCTCCGTCTCAAACAGCCGAAACCTGTCTTGCAATGGGGGGAGGGGGCGTTTTCGCTTTCTTCTTCT
TTGGCTTCCTCTTATTCTTCCACAAACCATTTCTCAATAAAGCCAAAAATCTTCTCTTTCTCCCCCTCAGGCCAC
CTCCTGTCTCTACTCCTGTCTGTGCTGGCTTTTCTGGAACGCCAGGCGCCCATGGCTGGCACCTTTCTGCTTGC
TCTGTCTCTTGCTTATGGCTGCTGCTTTTCTTTTACTTCTATTTTACCTTATCTTGCAATTTTTCTGTCT
GATTTTTACAATGGGAGGGGAGCTAAGATTGCAGTCTGTCTTCCGTCCCCAGGGCCTGCCGGTCAGAAGCCT
GGGGCTGGTAGGCCCTTGGTGGTCTCATGTGGATGGGCAAGAAGAGAGCGGCCATCTCGGATCATAATCTCCTT
GGTGCTGATTAAGTACGAGATATATGATTCCAGTTCTGCATGTACCATCTTGAGGCACAGCAGCCACTGCTCGT
TGTAATGCCAAGGCATTTGGCTTTGGGACGTGACAACTCAATCCAGAAGGATGGTGTGAAGTTCGGTTGGGTCCC
GTGACTCGAGCTCCTACCAGTGGCTGGCCGCGGATTGGAAGCCAGCCTGCTGTGCTCTGTGGGGGGGACACGT
CTTCCCACTGCTTAGAGCGAGAGCAGAGCAAACCTGCGCAGCAGGCACCTCCAGAAAGGTAATGGTGGCAGAACCC
ACAGTGGAGTCGACCTAGGCCTTTCTCCAGCAGTCCAGTGCCTATTGCTTTTTTCAGCCATTACAAAGCATTCAA
AACCACAAACCAACAGCAGTTTATATACCTGCCTGAGATAGGCTGGTCTTCCCTCACCTCCAGAGCCAGCCAGCCCGTC
AGGGGCCAAACTTACTACCTTGACTTTCATCTCTAGCTGCAGAAACACTAAGTCTCAAGGGCTTCAGCCCCATGCT
GGTCCCTTGGTGTTACAGGAGGGTCACTTGGACCGCTGTTTCATCTGGCCGCCCTTGTGAGTGTTCTTTGGAATT
GTCGTTTTTTGAGCACAACTACAGCATTTTAGACTGCATGAAACCATGACTGACTGAGAGTCACTCTCTGGGTAG
ATGATAGGCGCCTTTCTGGCCCCCTTCCCTCACAGATTCTTTCCCTCCCTCCACCTGAAGAGAAGGCCTCCAAG
TCCTTTTGGTGCTTGTGAGGACTTTTAGAAGGGGCGTTACGCTTTAAAAAGCCGGTCTAATTACGGCCGGACG
CAGTAGCTTACGCCTGTTATCCCAGCACTTTGGGAGGTGAGGTGGGCAGATCACCTGAGGTTAGGAGTTCAAGA
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGGTGTAGTGGCAGGCACCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTAGAAGGCGGAGGTTGCAGTGAGCGGAGATT
GTACCATGGCACTCCAGCCTGGACAACAAGAGCGAAATCTGTCTAAAAAACAAGTCCCAATTAAGAACCTC
CGAACTCTGTTTTGAGGCAAAAGGGGAGTAGTTCTTGGTAGGTGCAGGAATAGTAGTGTCATTTGGAATACTGGTC
ATCTTTCTGACATCACAGTAGAAACCAACCTTGGATTTAGATTCAAAAGGGGGGAAATGGGTCTTTTCATCAAG
GCAACTCCCTTCTCCAAGTCACTTACATCATAGATAAATTTAGCTTCCAGTAACTGAGGGATTGTTTCTTA
ACGCCATTGGAGGCCTTCATCCCTCTCTACGATAAGGTTGCAGAAATGGGAAGAGCTACCCGTGGTTGCTTTTGA
TTACCCCTTAGGAAGTGAGACAGTGTTTTTGAAAATATGTATTTCCCCATTTCTCCCTCTCCTTCCCTGACACTT
CTCTGGGCTGCACAGCAGAAACGTTGGTAAAGGGCAGTTTGGTTTCAACACAGCAGACCTGATATGGGATCCCT
TAGCCACTTTAGTCAACACAGCCCTGACAGAGTCTATAATTGAGTTCAGGCCCCCACCTTGCTAATAACTGCAA
ATCGCATGTTTCAGCCAGCAGCCTCCTAAGCCCACCTTCTCCCCATTAGAGAACACCCATCCTAGGTGCTCTCC
AGGCTGTGTATTGGCAGGGCTTCACATGCAGGAGGCCTCTCTCAGGTGAGTCCAGGTTAAACTGTTGAGTTGTG
GCTTCAACAGATATGTATGGCATGCTGGGATGTGCCAGGTGCCTGCGTTGTGCCAGTTGCTGGAGAGGTAGTGTG

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FIGURE 1865B

AGCAGAGCAGCTGAAATCTTGCCATCAAGCAACCCTCATTCTCATGCCTGTAGGTTTCCATTGCTCTGTCCCAGG
ACACTTGCGTGCCAGAGACGCCACAACCTTCAIGTCCCTGTCTCTTGCAAGCTCCCCGTGCTGCCAGTACTTTCATG
CCTTGATGTGGTCCCACCAGCCCAGTGGCCGGGGTACAGCTTAGGCTCTGCTTCCCAGTGGACGGGTGTGCTAAG
GGTTTATTTTATGTAAAAAACAACAAAAAACCTGAGACCATGAGTGGGGCTGGCATCTTGCCA
GCCTGGGCTTCAGGGATGTTTGGGGGGGTGGTTAGAGGGTAGTTGTAGGGTACTTTGTACCCCCCTCCCCCTG
CCACCCTCCCTGGCACGTTTATTTACAGCAGAGCCAAGTCTGTGGCAGGTTGACACAGACTGTGTTGCCAGAGC
TGAAATAATTCCACTTCATCCTATGAGCGTGTGGGCTAGCTTGTCTAATTTTGCCACTTTGGCTGTTTTCTT
CAGTTTTATGCATTCTCTCCTGCCCCAAAGTGCCAAGCCATTTGTGAAGGCTCTGCCAGACACCTCCAAGCTTGA
GAGCTCAGCACCATGCACCAAGAGCAGGAGAAAAAGACGTAAACCTACCCAGCAACTGTGGCCTCTCGACAGCCC
TGGCTAACTAACTTACATTTGTGGGGAAGCCAACAGACACAGCAGGAGGAGAGGGAGGTGGCGCTGGTGGACCA
GGATCTGTGCTACCCGCTCCCCCTCTTGAGGTGCAGTGTATGAGGAGTTATTTTACCATCCGGGCGCTGATA
GCTGCACTATTAATAAATTGCATGTGTTCCTTTTGAAGGTAGGGGATGGTTCTGGGTGAGAGGGGAGCAGGCTGA
GCCGGCGGGGGATCTGCTGTCTCCTCTTTGAGTCAGTTCTAATCCCATGTGTGTCTGGGCCACCAGACCGAAAT
GGTTGCTGAGAACTTGTCTGTTTCATGTCCCAAGGCATAACTTCCCAACATTTAAGAAACCCCAATAGACACCTC
TGCCCTGGCCACGTTACAGATCCTTCTCTTGACCGGAAACCCTGGGACCCTAAGAACCCCTGAAGCTTGGGGTG
GGTGTGTGCTTCTGGGGTCTCTTTGGGACCTCCTTTGTCTAGTACCCCTTCTTTTTTCTAAGCAGCTAATAAGAG
GTTGGGTGAAAGAGTGCATCTCCTCCAGGATTCCACAACAAAATTCTTATCTTCCATGGATGCTTTAATTGGAA
GTGGGTTGCCGACCCCCCTGTGCTAGAAAAGGCCTTCGCTTGGGTTTCTTTGTATGCTTCAGCCTTCTAGTT
GGTTTTTCTAGGCCTGGTGTGAGAGGTAGGGAAGTCTGCACATAACTAATTCTTTTGTCTAAGGGCCTATGGCAC
AAGTGCACAACTTCAATTCTTGATGTTCTAAGCTCTCTCCTCTAACAGAGGGAGTGCTGAAAGCTTTTGAGTCA
AGACAATGGAGTGCTCTTCTCCTCACTCTGCCTTCCGAGCTTATGGTTCCCTTTTCTCAGGAGAGGATTTTCAG
GATTATTGGAGGATTAGGTCAATTGTCAGATGACTGGAAAACCTAAATAGGATCTCTCTCCAGCTCAAGGTTGTCC
CAGTGAGGAAGACTTTACCAACTTCTCACTCTACCCCACTACTCACATGAGTGTAGCTCCACCTTGCAAAGGCT
GAAGACCAGTTCTCCCCAGTGAAAGCTGCCTCATTCTTTTATGGAGTTCCCTGGAGTGGCAGAGCTATAAAGACG
AGCATTGGGATTTGCAGTCTCCATGTAGCCTTTCGTGCTTGGCAACCCCTGTAGACTTTTGTCCCAAGCAGATT
GCGTGCGTGCGCCTGTGTGTGAGAATAAGTGCCTTACTTTGTCTGTGTGGTTTTCAACTTGTACTCCGTGGCCAGC
CCCCAGTTGCCAGGGCTCGACGGCAGCCAAGGACACCATACTCAGTATAGTTATATATAAAAGGGACACGGATT
GTGACAGTTTTACCCCCATTTGTTTCTAACCCCGCTGCCAGGATTAGGGTCTGTGGTGTGTTCTGTTTTGTTTT
GGTTTTCTCCCTTGTGTGAGTTCTCTTCTGCCCAGCTGGGTGGCTGTGGAAGTCTGTGAGGTGGCCCAACCACAA
GCATACCTATTAAGAGAAGCCCAGAGCTTCCAGCCCCCACTTGAAAACCTCTCCTCTGGCCCCACATAGCAAAC
CCTTCTCCGTTATTTTTCCCCACCCCCAGATTTTTTTTTAAAGGCCCACTTGCCGTAACCTCTTTTGGTCTATTTT
GCTTCCCATTCAGCCCCAAAGTTTATATGATAAAGGTGTTTACTTTTACTTCCCAGTCTCCAAGTGCTAACACATA
AACACATACATGTCTGACTGTTGCAGAACTGTTTCGAGCTCCTAATTCAGTGTACCTTGTTTTAGTCGCAGCAAC
CCTCTCCCCTACCCCTTGCCCGCCACGTTTTTCTCACTCTTCCGGGTGTGCAATAACTCTCCCAGCCAGTGGT
CCTTTCCACAGCCTTTCTGTCCCTTAAACACCTGCAACTGGGGGAGAAATGGGACCCATGGGAGGGGGAGTCGT
CATCCCTTACACAAGAAATAGCCACTTTCCTTTTGTGTGCTTCTGTGATCCTGGGTGGGTTTCTGTGGCACTC
TTTTAGAACATGTAGCATCATCTTAGAGGTCTATTTTTAAAAAATGTGTTGAAGAGGAAAAAACCTTCTCACGA
TGGGGCTTAAGTCATTGTCCAGGAATAAGATTGGCGTGGTGGCCATGACATCACCGTCACTCTGCCTAAAAGCAC
TCTAGAGCTACTTGTTACGTTGAGAGGAAGGATATTTTGCGAAGCAACAGCCGAGGTGGAGAGCCCTGTTTAC
CTGATAGGGTCTAGCTGTGACAGTAAATATAATACCGCTGTTTCTTGGGTACAGATTTGAGTGTTCATGTGATG
AGACTGTAAACCTCATTTTTTCCGTTTCTCTGTTTAAAAAACATCTGAAGGATGAACTAAGGCTGCTGGTGCCCT
GAGCAACTGATAATGCAAATGTGGACAAAGTGTCTGTTTTCTACTCTAGCCTGTTTATATGGACCAAATTTCAAC
AAGGAACTCAAGGAAAATTTGTACCTGCCGTATTTATGCTTTTATGTAAAAAAGGGTTGGGGGGAGGGGTGTCTT
TTTGCTTTTGGTGAACCTTTTTTCAAATCATTTTTTCCACTGTTTCTGTCTGGTTTTTAAACAAATTACAGTTTT
GTATGGATTTTTTAAATGTACATTTTGGAAACAATGATCAAATATTTTCTGAAATAACAATAAAGGCAGAAAAT
T

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FIGURE 1866

CGGCACGAGGCGACTTTGGTGGAGGTAGTTCTTTGGCAGCGGGCATGGCGGGTACCGTGGTGCTGGACGATGTGG
AGCTGCGGGAGGCTCAGAGAGATTACCTGGACTTCCTGGACGACGAGGAAGACCAGGGAATTTATCAGAGCAAAG
TTGCGGAGCTGATCAGTGACAACCAATACCGGCTGATTGTCAATGTGAATGACCTGCGCAGGAAAAACGAGAAGA
GGGCTAACCGGCTTCTGAACAATGCCTTTGAGGAGCTGGTTGCCTTCCAGCGGGCCTTAAAGGATTTTGTGGCCT
CCATTGATGCTACCTATGCCAAGCAGTATGAGGAGTTCTACGTAGGACTGGAAGGCAGCTTTGGCTCCAAGCACG
TCTCCCCGCGGACTCTTACCTCCTGCTTCCTCAGCTGTGTGGTCTGTGTGGAGGGCATTGTCACTAAATGTTCTC
TAGTTCTGTCCTCAAAGTCGTCCGCAGTGTCCTACTGTCTGTCTACTAAGAAGACCATAGAGCGACGTATTCTG
ATCTCACCACCCTGGTGGCCTTTCCCTCCAGCTCTGTCTATCCTACCAAGGATGAGGAGAACAATCCCCTTGAGA
CAGAATATGGCCTTTCTGTCTACAAGGATCACCAGACCATCACCATCCAGGAGATGCCGGAGAAGGCCCCAGCCG
GCCAGCTCCCCGCTCTGTGGACGTCATTCTGGATGATGACTTGGTGGATAAAGCGAAGCCTGGTGACCGGGTTC
AGGTGGTGGGAACCTACCGTTGCCTTCCTGGAAAGAAGGGAGGCTACACCTCTGGGACCTTCAGGACTGTCTTGA
TTGCCTGTAATGTTAAGCAGATGAGCAAGGATGCTCAGCCCTCTTTCTCTGCTGAGGATATAGCCAAGATCAAGA
AGTTCAGTAAAACCGATCCAAGGATATCTTTGACCAGCTGGCCAAGTCATTGGCCCCAAGTATCCATGGGCATG
ACTATGTCAAGAAAGCAATCCTCTGCTTGGCTCTTGGGAGGGGTGGAACGAGACCTAGAAAATGGCAGCCACATCC
GTGGGGACATCAATATTCTTCTAATAGGAGACCCATCCGTTGCCAAGTCTCAGCTTCTGCGGTATGTGCTTTGCA
CTGCACCCCGAGCTATCCCCACCACTGGCCGGGGCTCCTCTGGAGTGGGTCTGACGGCTGCTGTCAACACAGACC
AGGAAACAGGAGAGCGCCGTCTGGAAGCAGGGGCCATGGTCTGGCTGACCGAGGCGTGGTTTGCAATTGATGAAT
TTGACAAAATGTCTGACATGGATCGCACAGCCATCCATGAAGTATGGAGCAGGGTTCGAGTGACCATTGCCAAGG
CTGGCATCCATGCTCGGCTGAATGCCCCGTGCACTGTTTGGCAGCTGCCAACCTGTCTACGGCAGGTATGACC
AGTATAAGACTCCAATGGAGAACATTGGGCTACAGGACTCACTGCTGTACGATTTGACTTGCTCTTCATCATGC
TGGATCAGATGGATCCTGAGCAGGATCGGGAGATCTCAGACCATGTCCTTCGGATGCACCGTTACAGAGCACCTG
GGGAGCAGGATGGCGATGCTATGCCCTTGGGTAGTGTGTGGATATCCTGGCCACAGATGATCCCAACTTTAGCC
AGGAAGATCAGCAGGACACCCAGATTTATGAGAAGCATGACAACCTTCTACATGGGACCAAGAAGAAAAAGGAGA
AGATGGTGAGTGACAGATTTCATGAAGAAGTACATCCATGTGGCCAAAATCATCAAGCCTGTCTGACACAGGAGT
CGGCCACCTACATTGCAGAAGAGTATTCACGCCTGCGCAGCCAGGATAGCATGAGCTCAGACACCGCCAGGACAT
CTCCAGTTACAGCCCGAACACTGGAACTCTGATTGCACTGGCCACAGCCCATGCGAAGGCCCGCATGAGCAAGA
CTGTGGACCTGCAGGATGCAGAGGAAGCTGTGGAGTTGGTCCAGTATGCTTACTTTAAGAAGGTTCTGGAGAAGG
AGAAGAAACGTAAGAAGCGAAGTGAGGATGAATCAGAGACAGAAGATGAAGAGGAGAAAAGCCAAGAGGACCAGG
AGCAGAAGAGGAAGAGAAGGAAGACTCGCCAGCCAGATGCCAAAGATGGGGATTCTACGACCCCTATGACTTCA
GTGACACAGAGGAGGAAATGCCTCAAGTACACACTCCAAAGACGGCAGACTCACAGGAGACCAAGGAATCCCAGA
AAGTGGAGTTGAGTGAATCCAGGTTGAAGGCATTCAAGGTGGCCCTCTTGGATGTGTTCCGGGAAGCTCATGCGC
AGTCAATCGGCATGAATCGCCTCACAGAATCCATCAACCGGGACAGCGAAGAGCCCTTCTCTTCAGTTGAGATCC
AGGCTGCTCTGAGCAAGATGCAGGATGACAATCAGGTCTGTTGCTGAGGGCATCATCTTCCTCATCTAGGAG
GCCTCTGCTCTGAACCTGGGTTGTGCCGAGAGAGTTTGTCTGTGTTTCCACCCCTCTCCCTGACCCAAGTCTTT
GCCTCTACTCCCTTAACAGTGTGAATTCAACTGAAGGCGAGGAATGTTGGTGATGAAGCTGAGTTCAGGACTCG
GTGGACCCCTTGGGAATGGGTCTGAAAGCTGCCATGGGGTGAGGAAAGAGGAGACAGTGGGAGAGGACAATGAC
TATTGCATCTTCATTGCAAAAGCACTGGCTCATCCGCCCTACTTCCCATCCCACACAAACCCAATTGTAAATAAC
ATATGACTTCTGAGTACTTTTGGGGGCACAACCTGTTTTCTGTTTGCTGTTTTTTTGTGTTTTTTTCTCCAG
AGCACTTTGGTCTAGACTAGGCTTTGGGTGGTTCCAATTGGTGGAGAGAAGCTCTGAGGCACGTATGCAGGTCA
AGAAAGCTTTCTTTGCAGTAGCACCAGTTAAGGTGAATATGTATTGTATCACAAAACAAACCCAATATCCAGATG
AATATCCGAGATGTTGAATAAACTTAGCCATTTTCGTACAAAAAAGGGGGGCCCGGTAAAC

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FIGURE 1867

MAGTVVLDDVELREAQRDYLDFLDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRKNEKRANRLLNNAFEELVA
FQRLKDFVASIDATYAKQYEEFYVGLEGSFSGSKHVSPRTLTSCLVVCVEGIVTKCSLVRPKVVRVSVHYCPA
TKKTIERRYSDLTTLVAFPSSSVYPTKDEENNPLETEYGLSVYKDHQTITIQEMPEKAPAGQLPRSVDVILDDDL
VDKAKPGDRVQVVGTYRCLPGKKGGYTSGTFRTVLIACNVQMSKDAQPSFSAEDIAKIKKFSKTRSKDIFDQLA
KSLAPSIHGHYVKKAILCLLLGGVERDLENGSHIRGDINILLIGDPSVAKSQLLRYVLCAPRAIPTTGRGSSG
VGLTAAVTTDQETGERRLEAGAMVLADRGVVCIDEFDKMSDMDRTAIHEVMEQGRVTIAKAGIHARLNARCSVLA
AANPVYGRYDQYKTPMENIGLQDSLRSRFDLLFIMLDQMDPEQDREISDHVLRMHRYRAPGEQDGDAMPLGSAVD
ILATDDPNFSQEDQQDTQIYEKHDNLLHGTKKKKEKMVSAAFMMKKYIHVAKIIPVLTQESATYIAEEYSRLRSQ
DSMSSDTARTSPVTARTLETILRLATAHAKARMSKTVDLQDAEEAVELVQYAYFKKVLEKEKKRKRSEDESETE
DEEEKSQEDQEQRKRKRKTRQPDAGDGSYDPYDFSDEEEMPQVHTPKTADSQETKESQKVELSESRLKAFKVA
LLDVFREAHQAQSIGMNRLTESINRDSEEPFSSVEIQAALSKMQDDNQVMVSEGIIFLI

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FIGURE 1868

ATGACTGCATCCAACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAAC
CTGGAGCTCTACGCCTCCTACTTTAACCTCTCCATGTCTTACTACTTTGACCGTGATGATGCGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAGCATGCTGAGAACTGATGAACTGCAGAACCAA
CAAGAGTGTGCATTACATTTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAA
AATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGAATTGGGTGAACGTGACCAACTTG
CACAAGATGGGAGCACCCGAATCTGGCTTGGCAGAATATCTCTTTGACAAGCACACCCTGGGAGAAAGAGGGAGC
ACTGGAATGTTTAATTCGGACAATGCCAATAACAAGTTTACAGAGAAGAGAGAAGTTTCCATTGGGTTTTGAAGGT
TCTGCTGATTTTCAATGGGCAGAGGTGGAGGAACAGTCTGAGCAGAGAGAACATCATAAACAAAGGAGTGAATGT
GAGAAAGGCTTCAGGTCCCATCAGAGTACTGGCTTCACCTTTGACTGTAGAAGATTTAGTTGAAGCAGTATTCAA
AGTGTAGAAGTTGTCAAGCTACCTATCCAGTCTCTTGCTTCTGAAACAGTGGTTACCTGCTCTGGAAAACCTT
CTCTCTCCATCCTCCAAAGCTCCTGGGGTACAGCTTTATCAGCGCACCTATCACACTGATTCTGGTCTCCAAAA
CTCTTCTTGCTGAAAACAGCATACAAAATACTTTCCCTCTTCAAAGCCCAATACAACACTGGAAAAGCAATGGAG
AAGAAAGTACTCAGTATCTTTTCCCCACTAAAAGTTGTACTGCAATGCTTGAACACAAGTGGAGGAGCCCTAGGT
TTATCAAAAGTATCTGCCATTTCTAAAAGAATGTGTTTCCAAGGCATCCAGAAAGAGCTCTTTCCAAGTGCACCA
AATTCCATTTGCTTTCCACACCCTGTCCCGACAAGGGGTGCTGCAGAAGCACAAAGCCAGCCAGATGCATTGA

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FIGURE 1869

MTASNSQVRQNYHQDSEAAINRQINLELYASYFNLSMSYYFDRDDAALKNFAKYFLHQSHEEREHAEKLMKLQNQ
QECALHLEKNVNQSLLELHKLATDKNDPHLCDFIETHYLNEQNWVNVTNLHKMGAPESGLAEYLFDKHTLGERGS
TGMFNSDNANTSLQRRENFPPLGFEGSADFQWAEVEEQSEQREHHKQRSECEKGFRSHQSTGFTLTVEDLVEAVFK
SVELVKLPIQSSCLLKQWLPALENLLSPSSKAPGVQLYQRTYHTDSSLQKLFLLKTAYKILSLFKAQYNTGKAME
KKVLSIFSPLKVVLQCLNTTGGALGLSKVSAISKRMCFQGIQKELFPTAPNSICFPHFVPTRGAAEAQSQPDA

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FIGURE 1870

CGGACGCGTGGGCCGGTTTCAGCCATGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTGCAGCCGCATCG
CCCCCGAGCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCTTAGCACCACCACAGCTCAGC
CAGAACAGAAGGCCTCGAATCTCATTGGCACATACCGCCATGTTGACCGTGCCACCGGCCAGGTGCTAACCTGTG
ACAAGTGTCCAGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTG
TGGGGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCCATGGCCAATGA
TTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACCTGCCCACCTGGCATGTTCCAGTCTAACGCTA
CCTGTGCCCCCATACGGTGTGTCTGTGGGTTGGGGTGTGCGGAAGAAAGGGACAGAGACTGAGGATGTGCGGT
GTAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAAAGCATACACAGACTGTC
TGAGTCAGAACCTGGTGGTGATCAAGCCGGGGACCAAGGAGACAGACAACGTCTGTGGCACACTCCCGTCCCTTCT
CCAGCTCCACCTCACCTTCCCCTGGCACAGCCATCTTCCACGCCCTGAGCACATGGAAACCCATGAAGTCCCTT
CCTCCACTTATGTTCCCAAAGGCATGAACCAACAGAATCCAACCTCTTCTGCCTCTGTTAGACCAAAGGTACTGA
GTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGCTCAGCAAGGGGGAAGGAAGACGTGAACAAGACCCCTCC
CAAACCTTCAGGTAGTCAACCACCAGCAAGGCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGG
CCACTGGGGGCGAGAAGTCCAGCACGCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAGAACCTACACAAGC
ATTTTGACATCAATGAGCATTGCCCCTGGATGATTGTGCTTTTCTGCTGCTGGTGCTTGTGGTGATTGTGGTGT
GCAGTATCCGGAAGGCTCGAGGACTCTGAAAAAGGGGGCCCCGGCAGGATCCAGTGCCATTGTGGAAGGAGCAG
GGCTGAAGAAATCCATGACTCCAACCCAGAACCGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATA
TCCTGAAGCTTGTAGCAGCCCCAAGTGGGAAGCCAGTGGAAAGATATCTATCAGTTTCTTTGCAATGCCAGTGAGA
GGGAGGTTGCTGCTTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCCTACGCAGCTCTGCAGCACTGGACCA
TCCGGGGCCCCGAGGCCAGCCTCGCCCAGCTAATTAGCGCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGA
AGATTCTGTGGGCTGATGGAAGACACCACCCAGCTGGAACCTGACAACTAGCTCTCCCGATGAGCCCCAGCCCGC
TTAGCCCCGAGCCCCATCCCCAGCCCCAACCGGAACTTGAGAATTCCGCTCTCCTGACGGTGGAGCCTTCCCCAC
AGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCTTCTCCGCTGTGACTCTACATCCAGCGGCTCCT
CCGCGCTGAGCAGGAACGGTTCCCTTTATTACCAAAGAAAAGAAGGACACAGTGTGCGGCAGGTACGCCTGGACC
CCTGTGACTTGCAGCCTATCTTTGATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGA
TTCCCCAGGCTGAGGACAACTAGACCGGCTATTCGAAATTATTGGAGTCAAGAGCCAGGAAGCCAGCCAGACCC
TCCTGGACTCTGTTTATAGCCATCTTCTGACCTGCTGTAGAACATAGGGATACTGCATTCTGGAAATTACTCAA
TTTAGTGGCAGGGTGGTTTTTTAATTTCTTCTGTTTCTGATTTTGTGTTTGGGGTGTGTGTGTGTGTTTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTTAACAGAGAATATGGCCAGTGCTTGAGTTCTTTCTCCTTCTCTCT
CTCTCTTTTTTTTTTAAATAACTCTTCTGGGAAGTTGGTTTATAAGCCTTTGCCAGGTGTAAGTGTGTGAAATA
CCCACCATAAAGTTTTTTAAGTTCCATATTTTCTCCATTTGCTTCTTATGTATTTTCAAGATTATTCTGTGC
ACTTTAAATTTACTTTAATTACCATAAATGCAGTGTGACTTTTCCCACACACTGGATTGTGAGGCTCTTAACCTC
TTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCTTTATGTCTCTTAACATTCACACCTACTTTTTAAA
AACAAATATTATTACTATTTTTATTATTGTTTGTCTTTATAAATTTTCTTAAAGATTAAGAAAATTTAAGACCC
CATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTTAAATATGTCTTGTATAGTTTCATATTCATGGCTG
AACTTGACCACACTATTGCTGATTGTATGGTTTTACCTGGACACCGTGTAGAATGCTTGATTACTTGTACTCT
TCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTCAAGCCATCAGGATTTGCTATTTAAGTGGCTTGAC
AACTGGGCCACCAAAGAACTTGAACCTTACCTTTTAGGATTTGAGCTGTTCTGGAACACATTGCTGCACCTTTGGA
AAGTCAAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAATTTGCCAGCTTTGCTTTAAAGATGTCTTGTGTT
TTTATATACATAATCAATAGGTCCAATCTGCTCTCAAGGCCCTTGGTCTGGTGGGATTCCCTTCACCAATTACT
TTAATTAATAATGGCTGCAACTGTAAGAACCCTTGTCTGATATATTTGCAACTATGCTCCATTTACAAATGTAC
CTTCTAATGCTCAGTTGCCAGGTTCCAATGCAAAGGTGGCGTGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTA
GTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTACTAATTTATTAATAAACATTAGGTGTTTGTAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1871

MGTSPSSSTALASCSRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKCPAGTY
VSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCWPMIEKLPCAALTDRECTCPPGMFQSNATCAPHTVC
PVGWGVRRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQNLVVIKPGTKETDNVCGTLPSPSSSTSPSP
GTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTLPLNLQVVNH
QQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKHFDINEHLPWMIVLELLLVLVVIIVVCSIRKSSR
TLKKGPRQDP S AIVEKAGLKKSMTPTQNREKWIYYCNGHGIDILKLVAQVGSQWKDIYQFLCNASEREVAAFSN
GYTADHERAYAALQHW TIRGPEASLAQLISALRQHRRNDVVEKIRGLMEDTTQLETDKLALPMSPSPSPSPSPSP
PNAKLENSALLTVEPSPDKNKGFFVDESEPLLRC DSTSSGSSALS RNGSFITKEKKD TVLRQVRLDPCDLQPIF
DDMLHFLNPEELRVIEEIPQAEDKLDRLFEEIIGVKSQEASQTLLDSVYSHLPDLL

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FIGURE 1872

GCGCGGCACTTCCGCTGGCCGCTGGCTCGCTGGCCGCTCCTGGAGGCGGCGGGAGCGCAGGGGGCGCGGGC
CCGGGGACTCGCATTCCTCCGTTCCCCCTCCACCCACGCGGCCTGGACCATGGACGCCAGATGGTGGGCAGTGG
TGGTGCTGGCTGCGTTCCCTCCCTAGGGGCAGGTGGGGAGACTCCCGAAGCCCCCTCCGGAGTCATGGACCCAGC
TATGGTTCTTCCGATTTGTGGTGAATGCTGCTGGCTATGCCAGCTTTATGGTACCTGGCTACCTCCTGGTGCAGT
ACTTCAGGCGGAAGAACTACCTGGAGACCGGTAGGGGCCTCTGCTTTCCCTGGTGAAAGCTTGTGTGTTTGGCA
ATGAGCCCAAGGCCTCTGATGAGGTTCCCTGGCGCCCCGAACAGAGGCGGCAGAGACCACCCCGATGTGGCAGG
CCCTGAAGCTGCTCTTCTGTGCCACAGGGCTCCAGGTGTCTTATCTGA~~CT~~TGGGGTGTGCTGCAGGAAAGAGTGA
TGACCCGCAGCTATGGGGCCACAGCCACATCACGGGTGAGCGCTTTACGGACTCGCAGTTCCTGGTGCTAATGA
ACCGAGTGCTGGCACTGATTGTGGCTGGCCTCTCCTGTGTTCTCTGCAAGCAGCCCCGGCATGGGGCACCCATGT
ACCGGTACTCCTTTGCCAGCCTGTCCAATGTGCTTAGCAGCTGGTGCCAATACGAAGCTCTTAAGTTCGTCAGCT
TCCCCACCCAGGTGCTGGCCAAGGCCTCTAAGGTGATCCCTGTGATGCTGATGGGAAAGCTTGTGTCTCGGCGCA
GCTACGAACACTGGGAGTACCTGACAGCCACCCTCATCTCCATTGGGGTCAGCATGTTTCTGCTATCCAGCGGAC
CAGAGCCCCGCAGCTCCCCAGCCACCACACTCTCAGGCCTCATCTTACTGGCAGGTTATATTGCTTTTGACAGCT
TCACCTCAAACCTGGCAGGATGCCCTGTTTGCCCTATAAGATGTGATCGGTGCAGATGATGTTTGGGGTCAATTTCT
TCTCCTGCCTCTTACAGTGGGCTCACTGCTAGAACAGGGGGCCCTACTGGAGGGAACCCGCTTCATGGGGCGAC
ACAGTGAGTTTGTGCCCCATGCCCTGCTACTCTCCATCTGCTCCGCATGTGGCCAGCTCTTCATCTTTTACACCA
TTGGGCAGTTTGGGGCTGCCGTCTTCACCATCATCATGACCCTCCGCCAGGCCTTTGCCATCCTTCTTTCTGCC
TTCTCTATGGCCACACTGTCACTGTGGTGGGAGGGCTGGGGGTGGCTGTGGTCTTTGCTGCCCTCCTGCTCAGAG
TCTACGCGCGGGGCCGTCTAAAGCAACGGGGAAAGAAGGCTGTGCCTGTTGAGTCTCCTGTGCAGAAGGTTTGAG
GGTGGAAGGGCCTGAGGGGTGAAGTGAAATAGGACCCTCCCACCATCCCCTTCTGCTGTAACCTCTGAGGGAGC
TGGCTGAAAGGGCAAAATGCAGGTGTTTTCTCAGTATCACAGACCAGCTCTGCAGCAGGGGATTGGGGAGCCCAG
GAGGCAGCCTTCCCTTTTGCCCTTAAGTCACCCATCTTCCAGTAAGCAGTTTATTCTGAGCCCCGGGGGTAGACAG
TCCTCAGTGAGGGGTTTTGGGGAGTTTGGGGTCAAGAGAGCATAGGTAGGTTCCAGTTACTCTTCCCACAAGTTC
CCTTAAGTCTTGCCCTAGCTGTGCTCTGCCACCTTCCAGACTCACTCCCCTCTGCAAATACCTGCATTTCTTACC
CTGGTGAGAAAAGCACAAGCGGTGTAGGCTCCAATGCTGCTTTCCCAGGAGGGTGAAGATGGTGCTGTGCTGAGG
AAAGGGGATGCAGAGCCCTGCCCAGCACCACCACCTCCTATGCTCCTGGATCCCTAGGCTCTGTTCCATGAGCCT
GTTGCAGGTTTTGGTACTTTAGAAATGTAACTTTTTGCTCTTATAATTTTATTTTATTAAATTAAATTACTGCA

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FIGURE 1873

MDARWWAVVVLAAPPSLGAGGETPEAPPESWTQLWFFRFVVNAAGYASFMVPGYLLVQYFRRKNYLETGRGLCFP
LVKACVFGNEPKASDEVPLAPRTEAAETTPMWQALKLLFCATGLQVSYLTWGVLQERVMTRSYGATATSPGERFT
DSQFLVLMNRVLALIVAGLSCVLCKQPRHGAPMYRYSFASLSNVLSSWCQYEALKEVSFPTQVLAKASKVIPVML
MGKLVSRRSYEHWEYLTATLISIGVSMFLLSSGPEPRSSPATTLSGLILLAGYIAFDSFTSNWQDALFAYKMSSV
QMMFGVNFFSCLFTVGSLLLEQGALLEGTRFMGRHSEFAAHALLLSICSACGQLFIFYTIGQFGAAVFTIIMTLRQ
AFAILLSCLLYGHTVTVVGGLGVAVVFAALLLRVYARGRLKQRGKKAVPVESPVQKV

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FIGURE 1874

CTCCGGCGCAGTGTGGGACTGTCTGGGTATCGGAAAGCAAGCCTACGTTGCTCACTATTACGTATAATCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCCCTCGGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCTCAGGAACGTACCCTGACTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAATAAATTGGGAACCATTGCCAAGTCTGGTACTAAAGCATTTCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCAGAGAAAAGTGGTTGTGATCACA
AAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTTCACTGTGCGTGCTGACCATGGT
GAGCCCATTTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACCTAGAAGAGAGGCGG
GTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCATAGGCTATCCCATCACCTTTATTGGAGAAGGAACGAGAG
AAGGAAATTAGTGATGATGAGGCAGAGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAAGAAAA
CCCAAGATCGAAGATGTGGGTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAAAACTAAGAAGATC
AAAGAGAAATACATTGATCAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATGACATCACC
CAAGAGGAGTATGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCT
GTAGAAGGTCAGTTGGAATTCAGGGCATTGCTATTTATTCTCGTCGGGCTCCCTTTGACCTTTTGGAGAACAAG
AAGAAAAAGAACAACATCAAACTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAG
TATCTCAATTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCGTAACATCTCCCCGAGAAATGCTCCAGCAG
AGCAAAATCTTGAAAGTCATTGCAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGAC
AAGGAGAATTACAAGAAATCTATGAGGCATTCTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAAC
CGCCGCCGCTGTCTGAGCTGCTGCGCTATCATACTCCAGTCTGGAGATGAGATGACATCTCTGTCAGAGTAT
GTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCA
GCTTTTGTGGAGCGAGTGCGGAAACGGGGCTTCGAGGTGGTATATATGACCGAGCCCATTTGACGAGTACTGTGTG
CAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTGCCTGAGGATGAG
GAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGAT
AAGAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTCACCTTGCTGCATTGTGACCAGCACCTACGGC
TGGACAGCCAATATGGAGCGGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCC
AAAAAGCACCTGGAGATCAACCCTGACCACCCATTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAA
GATAAGGCAGTTAAGGACCTGGTGGTGTGCTGTTTGAAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGAT
CCCCAGACCCACTCCAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCA
GAGGAACCCAATGCTGCAGTTCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAA
GTCGATTAGGTTAGGAGTTTCATAGTTGGAAAACTTGTGCCCTTGATAGTGTCCCCATGGGCTCCCACTGCAGCC
TCGAGTGCCCTGTCCCACCTGGCTCCCCCTGCTGGTGTCTAGTGTTTTTTTCCCTCTCCTGTCTTGTGTTGAA
GGCAGTAACTAAGGGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGATTGTGGT
TTATTTTATTTTCTTCATTTTGTCTGAAATTAAAGTATGCAAAATAAGAATATGCCGTTTTAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1875

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYNSKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDI
IPNPQERTLTTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHN
DDEQYAWESSAGGSFTVRADHGEP IGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEI
SDDEAEEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTPIWTRNPDDITQEE
YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLN
FIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRR
LSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSASFVERVRKRGFEVVMTEPIDEYCVQQL
KEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTA
NMERIMKAQALRDNSTMGYMAKKHLEINPDHP IVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQT
HSNRIYRMIKLGLGIDEDEVAAEEPNAAVPDEIPPLEGDEDASRMEEVD

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FIGURE 1876

GGGCTGCGCTCTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGGCCCGCAGGCCT
GGGAATTTCCGTCCCCACCAAGTCCGGATGCTCACTCCAAAGTCTCAGCAGGCCCTGAGGGAGGGAGCTGTCA
GCCAGGGAAAACCGAGAACACCATCACCATGACAACCAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCT
TATCTTCTTCATGCTGGGTCTGGGAACGCTGCTCCCGTGAATTTTTTCATGACGGCCACTCAGTATTTACAAA
CCGCCTGGACATGTCCCAGAATGTGTCCTTGGTCACTGCTGAAGTGAAGGACGCCCAGGCCTCAGCCGCCCC
TGCAGCACCTTTCCTGAGCGGAACCTCTCTCAGTGCCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCC
CCTGCTGTTATTACCTACCTCAACTCCTTCTGTCATCAGAGGATCCCCCAGTCCGTACGGATCCTGGGCAGCCT
GGTGGCCATCCTGCTGGTGTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGT
CATCACCATGATCAAGATCGTGCTCATTAAATTCATTTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTCTGGCTGG
CCTTCTGCCTGCCAGCTACACGGCCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGCCCTCCGTGGCCAT
GATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCTTCGGCTACTTTATCACAGCCTGTGCTGTTAT
CATTTTGACCATCATCTGTTACCTGGGCCTGCCCCGCTGGAATTCTACCGCTACTACCAGCAGCTCAAGCTTGA
AGGACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGGCAAAGAGGAATC
TGGAGTTTCAGTCTCCAACCTCTCAGCCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAATATCTCAGT
CCTGGCTTTCTCTGTCTGCTTCACTTCACTATCACCATTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTC
CAGCATCGCAGGCAGCAGCACCTGGGAACGTTACTTCATTCTGTGTCTGTTTCTTGACTTTCAATATCTTTGA
CTGTTTGGGCCGGAGCCTCACAGCTGTATTATGTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGCT
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGTGTGCAACATTAAGCCCCGCGCTACCTGACTGTGGTCTTCGA
GCACGATGCCTGGTTCATCTTCTTCATGGCTGCCTTTGCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTG
CTTCGGGCCCCAAGAAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGG
TCTGGCACTGGGGGCTGTTTTCTCCTTCCGTGTTCCGGGCAATTGTGTGACAAAGGATGGACAGAAGGACTGCCTG
CCTCCCTCCCTGTCTGCCTCCTGCCCCCTTCTTCTGCCAGGGGTGATCCTGAGTGGTCTGGCGGTTTTTTCTTCT
AACTGACTTCTGCTTTCCACGGCGTGTGCTGGGCCCGGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACA
GTGGGGACATTGTGGGTTTGGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTCGGCATTGCTTGAGTTTCTCCAC
TCTTGGCTCTGACTGATCCCTGCTTGTGTCAGGCCAGTGGAGGCTCTTGGGCTTGGAGAACACGTGTGTCTCTGTG
TATGTGTCTGTGTGTCTGCGTCCGTGTCTGTGCACTGTCTGCCTGTCTGGGGTGGCTAGGAGCTGGGTCTGAC
CGTTGTATGGTTTGACCTGATATACTCCATTCTCCCCCTGCGCCTCCTCCTCTGTGTTCTCTCCATGTCCCCCTCC
CAACTCCCCATGCCAGTTCCTTACCCATCATGCACCCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATA
TTTGACAGAAACCAGGTGCCTTCAGAGGCTCTCTGATTTAAATAAACCTTTCTTGTTTTTTT

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FIGURE 1877

CACATGCTGCACGCGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTCAGGAGCCTGGGCGGCCTTCGCTTACT
CTCACCTGCTTCTGAGTTGCCAGGAGACCACTGGCAGATGTCCCGGCGAAGAGAAGAGACACATTGTTGGAAGA
AGCAGCCCATGACAGCTCCCCCTTCCTGGGACTCGCCCTCATCCTCTTCCTGCTCCCCCTTCCTGGGGTGCAGCCTA
AAAGGACCTAIGTCCTCACACCATTGAAACCACTAGTTCTGTCCCCCAGGAGACCTGGTTGTGTGTGTGTGAGT
GGTTGACCTTCCTCCATCCCCTGGTCCTTCCCTTCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGC
CCATTGTGGAGGCAGAGAAAAGAGAAAGTGTTTTATATACGGTACTTATTTAATATCCCTTTTTAATTAGAAATT
AAAACAGTTAATTTAATTAAAGAGTAGGGTTTTTTTTTCAGTATTCTTGGTTAATATTTAATTTCAACTATTTATG
AGATGTATCTTTTGCTCTCTCTTGCTCTCTTATTTGTACCGGTTTTTGTATATTTGAACAGATATTTAATTTTGC
TAACACTCAGCTCTGCCCTCCCCGATCCCCTGGCTCCCCAGCACACATTCCTTTGAAATAAGGTTTCAATATACA
TCTACATACTATATATATATTTGGCAACTTGTATTTGTGTGTATATATATATATATA

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FIGURE 1878

GCGCGAGCCGCGCCGCCCCGGTCGGGCCTCCGAAACCATGAACTTTCTGCTGTCTTGCGGTGCATTGGAGCCTTG
CCTTGCTGCTCTACCTCCACCATGCCAAGTGGTCCCAGGCTGCACCCATGGCAGAAGGAGGAGGGCAGAATCATC
ACGAAGTGGTGAAGTTCATGGATGTCTATCAGCGCAGCTACTGCCATCCAATCGAGACCCTGGTGGACATCTTCC
AGGAGTACCCTGATGAGATCGAGTACATCTTCAAGCCATCCTGTGTGCCCTGATGCGATGCGGGGGCTGCTGCA
ATGACGAGGGCCTGGAGTGTGTGCCCCACTGAGGAGTCCAACATCACCATGCAGATTATGCGGATCAAACCTCACC
AAGGCCAGCACATAGGAGAGATGAGCTTCCTACAGCACAACAAATGTGAATGCAGACCAAAGAAAGATAGAGCAA
GACAAGAAAAAAATCAGTTCGAGGAAAAGGAAAGGGGCAAAAACGAAAGCGCAAGAAATCCCGGTATAAGTCCT
GGAGCGTGACGTTGGTGCCCGCTGCTGTCTAATGCCCTGGAGCCTCCCTGGCCCCCATCCCTGTGGGCCTTGCT
CAGAGCGGAGAAAGCATTGTTTGTACAAGATCCGCAGACGTGTAAATGTTCTGCAAAAACACAGACTCGCGTT
GCAAGGCGAGGCAGCTTGAGTTAAACGAACGTACTTGCAGATGTGACAAGCCGAGGCGGTGAGCCGGGCAGGAGG
AAGGAGCCTCCCTCAGGGTTTCGGGAACCATCT

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FIGURE 1879

TACCCCTTCATGCTCCAGTGCACCCAGGCTTCGTGGCCAGCCTGGGAAACTGTCTCTACCCCTGGTCTCCCTTCA
GATCAGCTTCTAGAAATGTTTTCGTGGCTACAGTGGCAGCACTGTTTTTCCATGATGCAAGCAGTTTGCCCTCTT
GGGCGGGGTTATCAGTGGCTGGCAGGGCTGGCACAGCGTGTCCGCCCACTGCCACCTGTGGGTTCAGGAGGGCC
CAGCCCCCTGTGCTGATGCCACCACTTCTCAGCTCATGTCTGGGGAAGAGGACTGGCAGGGGGAAAGGTGCCTC
CTCCTGAAAGGTGCCTCCTCTGTTTTTGCCTAATATAGGCTTGGAACACTTTGATGTGAGCTAATTCTGACTCC
TTTACTTACTAGCTGTGCGGCCTTGGGGCACTTACTTAGCCTCTTTGAGCCTCCTGTTCCCATCTGTAAAATG
GAATCTCAATAGTGTCTAATAGTACCATGTGGAGAACTTGTGTGAAATGATAGCTGTGGACTACTGTACACAGT
ACTCAGGATGTAGTAAGTGCTCAATAAACAGCTGTTGGTATGTTGACGTTATGGTAGTGGTTGTGGGGAGGACG
TAGGAACTGGAGACTAGCTTGGCAAAGCTGGCTCTTCCTCCTTTTAGGGAAAGCTTAGAGCATCCCCATGGGGT
ATACCCATACTCAGACTGTCTCTGGCATCGAGGTTGGCCAGGATTACGTTTACGCTGTGACAGTGAGGTGGCGG
GATCAGATGTGGCAGGCCATGTCCCTTGGAACCTGAGTACATCGTGTGATCTCTGGAATGAAAACAGGCCCTTAC
CAGTGTGATGGTGGAAAGCTTAGGGAAAGTGCTTCAAACACAGTAGGAGGGACTTACGTTAGATTTTGAAGGAC
TTGCCTGATTCGGAAGCTCCAAAGAGTGGCATTACAGAGCTGGGTGGAGAGAGGGGGCTAGCCATCTTTTGTGTCG
CCCACCGGGCTCATGTGTATCGCCTCTCATGCAGTGGTGAAGTTCATGGATGTCTATCAGCGCAGCTACTGCCA
TCCAATCGAGACCCTGGTGGACATCTTCCAGGAGTACCCTGATGAGATCGAGTACATCTTCAAGCCATCCTGTGT
GCCCCTGATGCGATGCGGGGGCTGCTGCAATGACGAGGGCCTGGAGTGTGTGCCCCTGAGGAGTCCAACATCAC
CATGCAGGTGGGCATCTTTGGGAAGTGGGGCAAGGGGGGGATAGGGAGGGGGTAACACTTTGGGAACAGGTGGT
CCCAGGTCGTTTCCTGGCTAGATTTGCCTTGCTGGCTCCTGCCCCTGAGTTGCACAGGGGAGGTATGGTGGGGT
CTTGCCCTCTGTGGAGAAGATGCTTCATTCCAGCCCAGGTTCCAGCAAGCCCCAACCATCTCCTTCTCCCTGA
TGGTTGCCCATGGGCTCAGGAGGGGACAGATGGATGCCTGTGTGAGGAGCCCCTCTCTCCCTCTCTTGGAGAGAG
TCCTGAGTGCCCCCCTTCTTGGGGGCTTTGTTTGGGAAGCTGGATGAGCCTGGTCCATGGAGAGTTTAAAAAGT
CTTTTGGTGTACCTGGTAATGGGGCACATCTCAGCCCAGATAGGGTGGGAGGGAGCTGTGAAACACAGGGAGGG
GGTTGCTTTGCGGTATCTACTAGGAGTCAGGGTGAAGCCTAGAGAGGATGAAAGAAGGGGAGGGGATGGGGAGTG
GTAAGAACCCTAGGATTTGAATTCCCAGCCTGGCCAACCCTTGAGCCATGTCTTGGCCTCAAGTGGAAACAAGGGC
TCCTTGAGGCCAGCAGGGTTGGGGGAGTTGGGGTGGGCCTGAGCCTCTTTCTGCTAGAGCTCTTGGTCTCCTCCT
GCCTCCACCACCCATCCCTGCTCTGCAGAACCCTGGGTGCTGAGTGGCAGGAGCCCCAGGGTTGTCCCATCTGG
GTATGGCTGGCTGGGTCACTAACCTCTGTGATCTGCTTCCTTCCTTTCCAGATTATGCGGATCAAACCTCACCAA
GGCCAGCACATAGGAGAGATGAGCTTCCCTACAGCACAAACAAATGTGAATGCAGGTGAGGATGTAGTCACGGATTC
ATTATCAGCAAGTGGCTGCAGGGTGCTGATCTGTGCCAGGGTTAAGCATGCTGTACTTTTTGGCCCCCGTCCAG
CTTCCCGCTATGTGACCTTTGGCATTCTTACTTCAATGTGCCTCAGTTTCTACATCTGTAAAATGGGCACAATAGT
AGTATACTTCATAGCATTGTTATAATGATTAAACAAGTTATATATGAAAAGATTAAACAGTGTTGCTCCAT

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FIGURE 1880

AGGTTTTTGAAGATGCGCGCCCTCAAGGCTCTGGTGTCCGGCTGTGGGCGGCTTCTCCGTGGGCTACTAGCGGGC
CCGGCAGCGACCAGCTGGTCTCGGCTTCCAGCTCGCGGGTTCAGGGAAGTGGTGGAGACCCAAGAAGGGAAGACA
ACTATAATTGAAGGCCGTATCACAGCGACTCCCAAGGAGAGTCCAAATCCTCCTAACCCCTCTGGCCAGTGCCCC
ATCTGCCGTTGGAACCTGAAGCACAAAGTATAACTATGACGATGTTCTGCTGCTTAGCCAGTTCATCCGGCCCTCAT
GGAGGCATGCTGCCCCGAAAGATCACAGGCCTATGCCAGGAAGAACACCGCAAGATCGAGGAGTGTGTGAAGATG
GCCCACCGAGCAGGTCTATTACCAAATCACAGGCCTCGGCTTCCTGAAGGAGTTGTTCCGAAGAGCAAACCCCAA
CTCAACCGGTACCTGACGCGCTGGGCTCCTGGCTCCGTCAAGCCCATCTACAAAAAAGGCCCCCGCTGGAACAGG
GTGCGCATGCCCGTGGGGTCACCCCTTCTGAGGGACAATGTCTGCTACTCAAGAACACCTTGGAAGCTGTATCAC
TGACAGAGAGCAGTGCTTCCAGAGTTCCTCCTGCACCTGTGCTGGGGAGTAGGAGGCCCACTCACAAGCCCTTGG
CCACAACCTATACTCCTGTCCCACCCACCACGATGGCCTGGTCCCTCCAACATGCATGGACAGGGGACAGTGGGA
CTAACTTCAGTACCCTTGGCCTGCACAGTAGCAATGCTGGGAGCTAGAGGCAGGCAGGGCAGTTGGGTCCCTTGC
CAGCTGCTATGGGGCTTAGGCCATGCTCAGTGCTGGGGACAGGAGTTTTGCCCAACGCAGTGTATAACTGGGT
TCATGGGCTTACCCATTGGGTGTGCGCTCACTGCTTGGGAAGTGCAGGGGGTCTGGGCACATTGCCAGCTGGGT
GCTGAGCATTGAGTCACTGATCTCTTGTGATGGGGCCAATGAGTCAATTGAATTGATGGGCCAAACAGGTCCCAT
CCTCTTCATG

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FIGURE 1881

MAALKALVSGCGRLLRGLLAGPAATSWRLPARGFREVVETQEGKTTIEGRITATPKESPNNPPNSGQCPICRW
NLKHKYNYDDVLLLSQFIRPHGGMLPRKITGLCQEEHRKIEECVKMAHRAGLLPNHRPRLPEGVVPKSKPQLNRY
LTRWAPGSVKPIYKKGPRWNRVRMPVGSPLLRDNVCYSRTPWKLYH

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FIGURE 1882A

AGCTGTCGTGCCTCGTGGTCCCGGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGCGCTAGGCATGGCGATGGAT
CAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCACTCCACCCAGCGCTAC
CGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCTATCTGTGTCCCTGTGGCTTGAGGTTG
GCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTTGTCAAGTTTCGGTGG
AACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTCTATGGAGCTGATTGCAAAATGGAACATTGAAC
ATTTTGAAGAGGAGAACCATATTAAAGATGCTCTGTCTCGAATTGTAGTGGAAATGATCAAGCGAGAGTGGCCA
CAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTCCAAACAAGGGGAAACACAGACAGAATTGGTGATG
TTTATCCTTTTGGCACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGAAGGGACATCCAG
CAAACATTAACCCAGAACATGGAAAGGATCTTCAGTTTTCTGCTTAACACACTTCAAGAAAATGTAAACAAGTAT
CAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGGCGCAAGCAAACCTGTGAGTAGGAGTTGCAGCACTGAAT
ACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTCACATCACTGCTGAAAACCTGTAAACTCCTGGAGATACTG
TGTTTGCTGTTGAATGAACAGGAACCTTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCAGTCAGCAGAAAAGGC
AAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTGGAGATGTTGCCATGCATTATATACTCTCCGCCGCACAG
ACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACGTCTTCTGAAGAGGCTCTGTGAGGTGTTGTGTGCGCTG
GGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACCTTTGGAATAACCTGGAA
TCTTTTCTTGCTTTCACAACCCATCCAAGTCAGTTTCTACGCTCTTCAACTCAGATGACTTGGGGAGCCCTCTTC
AGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAGCAATAATACCAAATATCTTCGTGCTTCCATGACTAAC
TTGGTCAAGATGGGCTTTCCTTCTAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGATTTTGATAGCGAT
GAGGACTTCAATGCTTCTTCAACTCCTCCCGAGCACAAACAAGGAGAGGTGATGAGGTTGGCATGTGCTTTGGAT
CCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAAAGTATCAACTATCAACTTTTCTTGATGCTGGTTCTGTG
AATCTTGTCTGTCAGTTGGAAGTGGAGAAGGAAGCCCTCTGTTCCGTCTTCTCACCTTCATTCTGTCAGTGGGAA
GCCATGACTCTTTTTTTGGAAAGTGTTATCACCCAGATGTTTGAACACTAAATAGAGAAGAAATTCCTGTTAAT
GATGGAATAGAGCTATTGCAGATGGTTCTGAACCTTTGATACCAAGGATCCCTCATCCTGTCTGCTGCTTACT
AATGTCTCTGCACTCTTTCATTTGTCACCTACAGACCAGAGTTCTGCCCCAGGTCTTCTCTAAGCTATTTTCA
TCTGTCACTTTTGAAGTGTGTAAGAAAGTAAGGCCCCCAGAACC CGGCAGTGAGGAATGTGAGGAGGCATGCT
TGTTCTCCATCATCAAGATGTGTGCTGACTACCCCGAGCTGTGCTGCCCAATTTTGACATGCTTTATAACCAT
GTGAAGCAACTCCTCTCCAATGAGCTACTCCTGACACAAATGGAGAAGTGTGCCCTCATGGAAGCCCTGGTTCTC
ATTAGCAACCAATTTAAGAACTACGAGCGTCAGAAGGTGTTCTAGAGGAGCTGATGGCACCAGTGGCCAGCATC
TGGCTTTCTCAAGACATGCACAGAGTGTGTCAGATGTTGATGCTTTTATTGCGTATGTGGGTACAGATCAGAAG
AGCTGTGACCCAGGCTGGAGGATCCGTGTGGCTTAAACCGTGACGAATGAGCTTTTGTGTATACAGCATTCTG
GGTGTGGTGAAACGAACTTGCTGGCCCACTGACCTAGAAGAGGCCAAAGCTGGGGGATTGTGGTGGGTTATACA
TCCAGTGGAAATCCAATCTTCCGTAACCCCTGCACAGAGCAGATTCTGAAACTTCTTGACAATTTGCTTGCCTT
ATAAGAACCCACAATACATTATATGCACCAGAAATGTAGCCAAAATGGCAGAGCCTTTCACCAAGGCTCTGGAT
ATGCTTGACGCGGAAAAATCTGCTATATTAGGATTACCTCAACCTCTCTTGGAAGTCAATGACTCTCTGTCTTC
AAAACCGTCTTGGAAAGAATGCAGCGTTTCTTCTCTACCTCTATGAAAACCTGTTTTCATATCCTAGGGAAGGCA
GGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCAGCCTTTGTCAAC
TTGAACAATATTCTGACTACCGACTCAGACCCATGCTTCATGTCTTTGTAAAGCCTCTGGTGCTCTTCTGTCCC
CCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCGACCTCTTTTACCTACCTCCATATGAGGCTTTCTCAG
AAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTGGAAGAAGTGAAGCTGCAGATGAAAACCCAGAGTCTCAA
GAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTTTGCTGTGTTTCA
AAGAAGGGTGCTGACCACAGTAGTGCTCCCCAGCAGATGGAGACGATGAAGAAATGATGGCCACAGAGGTCACC
CCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAATGTCTGATGAAGCATGAGGATGTTTGTACAGCGCTATTA
ATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTCTGTCTGCCAGAGGACAACCTCACAGCTCTGCTGGCCT
CTCCTCAAACAAGTGCTGTGACGGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTACCAGTGTGCTGAAAGGC
TTACAGATGCACGGGCAGCACGACGGGTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATATACGAGGCACTG
CGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCACTGGACCAGTTT
GACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTCAAACGCCTCAT
GCTGGTTGCATTGGGAACCCCTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTTCCCTCACTTTTC

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FIGURE 1882B

AAAAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACCATCTTTGAACCC
TGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCTTGTCATCTCTTCTTTCCCTTTGTAGCCGATCTCTAGGC
CCTTCTTGCACTGCCACCTCACTTTCCACCCTGTGAGCCTGGAAAGAGATCCAGGTCTGGAGCTGGAGAGAACA
GGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAAACTATTCTGTCTAG
ATGTCCCAGATAGTTCCCATTTCTACTTGGAGATTTGGCTTTTCCAAGAAAAGCTAGAGCAGAGCAGCCCTTCTCC
CACAAGCCCTCCCACCCCGTGCAGCCACATACCTGTACAGAATGGTAAC TAAGGGTGCTGTGCCCAACCCTGCG
ACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCACTACTTGTGCCAGAGTTTCTCTTGGACCACTCCAACCTCCC
ACTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTTCCCCACTCCCTAAGGGGCATGTCTGGGTTAGGTGCTAA
GTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGATGGGATCCATGGT
ACAGGCTACTGCTAACTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAAGTCTTTAGTGCT
AACATCCCCCTTTAGAGTTTACACATCTTGCCCTTCCATGAATGACCCCTCAGTCTGGCCTCCCCAGCCTCAAGGT
CCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTACATGACACCGTTGTCTCATCCAAGGATAATACAGACC
AACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCCAGGTGCCTTCCA
CAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCTCAAAGGCCATTTCCAAAAGAATACATGCCTTCACATCA
CAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGATACGGGACCTGGC
CCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGCTCTGCACAAAAA
CAGACCTGTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCCGAGAGCCGAAGTGGACTGAAGCTACAGTTTTT
AGCTGGTGCGGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTGGGAGTCTTGTGT
TGCTCCCTCTTCTGTGTGGTGTCTGCGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGTTCCTCCAAAC
CTGATAGCTGCCTATTCTGTCTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTGTAATATTTTAA
CATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTTATAGAACTTTTTGTAGAAACATTAACCTCTAAAGCACA
TCTGCATGTGAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 1883

CACCAAATGGCGGATGACGCCGGTGCAGTGGGGGGGCTGGAGGCCCTGGTGGCCCTGGGATGGGGAACCGCGGT
GGCTTCCGCAGAGGTTTCGCCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTGGACCGGGCCGGGGCTGAGGCCGC
GGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCCGCACCAAGCTGGGCCGCTTGGTCAAGGACATG
AAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAGGAATCAGAGATCATTGACTTTTTCTCTG
GGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCACCAGG
TTCAAGGTGACAGGCCGCGCTGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCAGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCT
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGT
G

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FIGURE 1884

CGCGGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCGTCACCAAGCTGGGCCGCTTGGTCAAGGAC
ATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAAGGAATCAGAGATCATTGACTTTTTTC
CTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCACC
AGGGCTCTCCATTGTCCCCGTGCACAGAGGCTACTAGGGGAACAAGATCGGCAAGCCCCACACCGTCCCCTGCAA
GGTGACAGGCCGCCGTGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCCGCACC
TGTGCCCCAAGAAGCTGCCATTTCTAAGACCTACAGCTACCTGACCCCGACCTCTGGAAGGAGACTGTATTTACC
AAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCTGTGCAGCAGACCCAGGCT
CCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 1885

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESSEIDFFLGDSLKDEVLKIMPVQKQTRAGQRTLHCPRAQRLLGE
QDRQAPHRPLQGDRPLRLCAGAPHPCTQGHWHRLRTCAQELMPSLRPTAT

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FIGURE 1886

GTGTTCCGGCCGATCCACCTCTTCTCGACCCTGGACGTCTACCTTCCGGAGGCCACATCTTGCCCACTCCGCG
CGCGGGGCTAGCGCGGGTTTCAGCGACGGGAGCCCTCAAGGGACCATGGCAACTACAGCGGCGCCGGCGGGCGGCG
CCCGAAATGGAGCTGGCCCGGAATGGGGAGGGTTTGAAGAAAAACATCCAGGGCGGAGGCTCAGCTGTGATTGACA
TGGAGAACATGGATGATACCTCAGGCTCTAGCTTCGAGGATATGGGTGAGCTGCATCAGCGCCTGCGCGAGGAAG
AAGTAGACGCTGATGCAGCTGATGCAGCTGCTGCTGAAGAGGAGGATGGAGAGTTCCTGGGCATGAAGGGCTTTA
AGGGACAGCTGAGCCGGCAGGTGGCAGATCAGATGTGGCAGGCTGGGAAAAGACAAGCCTCCAGGGCCTTCAGCT
TGTACGCCAACATCGACATCCTCAGACCCTACTTTGATGTGGAGCCTGCTCAGGTGCGAAGCAGGCTCCTGGAGT
CCATGATCCCTATCAAGGTGGTCAACTTCCCCCAGAAAATTGCAGGTGAACTCTATGGACCTCTCATGCTGGTCT
TCACTCTGGTTGCTATCCTACTCCATGGGATGAAGACGTCTGACACTATTATCCGGGAGGGCACCCCTGATGGGCA
CAGCCATTGGCACCTGCTTCGGCTACTGGCTGGGAGTCTCATCCTTCATTTACTTCCTTGCCCTACCTGTGCAACG
CCCAGATCACCATGCTGCAGATGTTGGCACTGCTGGGCTATGGCCTCTTTGGGCATTGCATTGTCCTGTTTCATCA
CCTATAATATCCACCTCCACGCCCTCTTCTACCTCTTCTGGCTGTTGGTGGGTGGACTGTCCACACTGCGCATGG
TAGCAGTGTGTTGGTGTCTCGGACCGTGGGCCCCACACAGCGGCTGCTCCTCTGTGGCACCCCTGGCTGCCCTACACA
TGCTCTTCCTGCTCTATCTGCATTTTGCCTACCACAAAGTGGTAGAGGGGATCCTGGACACACTGGAGGGCCCCA
ACATCCCGCCCATCCAGAGGGTCCCCAGAGACATCCCTGCCATGCTCCCTGCTGCTCGGCTTCCCACCACCGTCC
TCAACGCCACAGCCAAAGCTGTTGCGGTGACCCTGCAGTCACACTTGACCCCACCTGAAATTCTTGCCAGTCCTC
TTTCCCGCAGCTGCAGAGAGGAGGAAGACTATTAAAGGACAGTCCTGATGACATGTTTCGTAGATGGGGTTTGCA
GCTGCCACTGAGCTGTAGCTGCGTGAGTACCTCCTTGATGCCTGTTCGGCACTTCTGAAAGGCACAAGGCCAAGAA
CTCCTGGCCAGGACTGCAAGGCTCTGCAGCCAATGCAGAAAATGGGTCAGCTCCTTTGAGAACCCTCCCCACCT
ACCCCTTCCTTCCTCTTTATCTCTCCACATTGTCTTGCTAAATATAGACTTGGTAATTAAAATGTTGATTGAAG
TCTGG

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FIGURE 1887

MATTAAPAGGARNGAGPEWGGFEENIQGGGSAVIDMENMDDTSGSSFEDMGELHQRLREEEVDADAADAAAAEEE
DGEFLGMKGFKGQLSRQVADQMWOAGKRQASRAFSLYANIDILRPYFDVEPAQVRSRLLESMPKVVNFPQKIA
GELYGPLMLVFTLVAILLHGMKTSDTIIREGTLMGTAIGTCFGYWLGVSSFIYFLAYLCNAQITMLQMLALLGYG
LFGHCIVLFITYNIHLHALFYLFWLLVGGLSTLRMVAVLVSRTVGPTQRLLLCGTLAALHMLFLLYLHFAYHKVV
EGILDTLEGPNIPPIQRVPRDIPAMLPAARLPTTVLNATAKAVAVTLQSH

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FIGURE 1888

GCGGAAGCGGCGCCATTTCGTCTTCCGAGCGCTACTGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGCCGG
GGCCGGGGCCGGGGCCCGACGTCCCCGCGGGGCCCCGGGACCGCGAGGAGGACGGCGGGGGCCCTGGAGCCCCGCGGC
CGTGGCCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTTGAGGAGCTGTTGGAATTGCAGAGCCAAAGTGGG
GACTAAGACGTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAAACAAGCTTCTAGACCACCTATCCAAAATGC
ATGTGTTGCAGATAAGCACAGGCCTCTGGAAATGTCAGCCAAGATCCGAGTACCATTTTTACGTCAGGTTGTTCC
CATTAGTAAAAAGGTAGCCCGGGACCCTCGCTTTGATGATCTGTCAGGGGAATATAATCCTGAGGTGTTTGACAA
AACATACCAATTCTTGAATGACATCCGAGCGAAAGAGAAAGAGTTGAAGAAGCACCTTTCAGGAGAGGAGCATGA
GAAACTGCAGCAACTGCTTCAGCGAATGGAGCAGCAAGAAATGGCACAGCAGGAACGAAAGCAACAGCAGGAGCT
GCACCTGGCCCTGAAGCAAGAACGTCGGGCTCAGGCCCAGCAGGGCCATCGGCCATACTTCCTGAAAAAATCTGA
GCAGCGCCAGTTGGCACTAGCTGAGAAGTTCAAGGAGCTGAAACGCAGCAAGAAATTGGAGAACTTCTTGAGTCG
AAAGAGGCGACGAAATGCAGGCAAGGACAGGAGACATCTCCCTTTGAGCAAAGAGTAATAAGGAACATCCTCTG
CTCTGCCACTGCCCCAGGGAGACATGGATCTGTGAGGACAGATTTGGCCACGGCTGGTTTCCGTTCAAGGGCAAG
GATCACAGCTGCCCTTGAATCTCATTGCCTCAGAGAAGACTAGAGGGCTCTTGGAATATCCCTAGGGCTACACAA
GAATAGTTTCAGCCTTCTGCCATGCCACACAGCCTCAGCTTGAATCTGGTTCATTGCGTCCTCGTGTTCTTCTCTC
ATCCTTGCCCTTAAACCAGGGATTCTGATACCGAAGAAGAGGGGGCCAATGAAAACCATGGAGTCTGTTTCGTGACTC
CCAGGGCTGGGACATTATGTAGGAGCCACTTCATAAACATTCTCTTTACTCATCTTTTTATTCTGTTTTTTGTGG
CCTTCTTTTTTGTGTTTCCCCCCCCGAAACAGAGTCTCGCTCTGTCACCCAGGCTAGAGTACAGTGGTGCAATCTCG
CCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTTGTGCCTCAGCCTCCCGAGTAGCTGACATCCGCCAC
CAAGCCCAGCTAATT

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FIGURE 1889

MPGANYRAGAGAGAGARRPRGARDREEDGGGLEPAAVARDLLRGTSNMSFEELLELSQVGTKTYKQLVAGNSPK
KQASRPPIQNACVADKHRPLEMSAKIRVPFLRQVVPISKKVARDPRFDDLSGEYNPEVFDKTYQFLNDIRAKEKE
LKKHLSGEEHEKLQQLLQRMEEQEMAQQERKQQQELHLALKQERRAQAQQGHRPYFLKKSEQRQLALAEKFELK
RSKKLENFLSRKRRRNAGKDRRHPLSKE

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FIGURE 1890

GCTTGGCTGTGTTTATCTCGTTGGGGACTAAGGCGTCGGTTGGCGCGCAACGGGTTCTAGGCTGCAGGCAGCTCG
AGGACCCGCGGCCCCGCCCCGGCTCGGCCTGGCAGATAGCAGAGGCAGCAGGCCGTGCCGGGGGGGCATGTTGCT
GTAACCAAGTGGCCAGGGGATGTTACGGTGGACAGTGCACCTGGAGGGCGGGCCCCGAGGGTGAACCATGCTGC
AGTGGCTGTGCGGCATCGGGTATACTCCTTCGGGGGTTACTGCTCTGGTGAAGACTATGAGACACTGCGTCAGAT
AGATGTGCACATTTTCAATGCAGTGTCTTGCCTTGGACAAAGCTGCCCCGGTGAAGTCTGCCATCCGTGGGCA
AGCTCCTGTGGTACCCTACATGCGCTATGGACACTCAACCGTCCTCATCGACGACACAGTCCTCCTTGGGGCGG
GCGGAATGACACCGAAGGGGCTGCAATGTGCTCTATGCCTTTGACGTCAATACGCACAAGTGGTTCACACCCCG
AGTGTGAGGGACAGTTTCTGGGGCCCGGGATGGACATTGAGCCTGTGTCCTAGGCAAGATCATGTACATTTTGG
GGGCTACGAGCAGCAGGCGGACTGTTTTTCCAATGACATTCAAGCTAGATACCAGCACCATGACATGGACTCT
TATCTGTACAAAGGGCAGCCCTGCACGCTGGAGGGACTTCCACTCAGCCACAATGCTGGGAAGTCACATGTATGT
CTTGGGGGGCGTGGCGACCGCTTGGGCCATTCCATTCCAACAATGAGATTTACTGCAACCGCATTTCGAGTCTT
TGACACCAGAAGTGAAGGCTTGGCTGGACTGTCCCCGACTCCAGTGTGCTGAGGGGCGCCGGAGCCACTCGGC
CTTGGCTACAATGGGGAGCTGTACATCTTGGTGGTTATAATGCAAGGCTGAACCGGCATTCCATGACCTCTG
GAAGTTTAATCCTGTGTCTTTACCTGGAAAAAGATTGAACCGAAGGGGAAGGGGCCATGTCCCCGCCGGCGCCA
GTGCTGCTGTATTGTTGGTGACAAGATTGTCCTCTTGGGGGTACCAAGTCCATCTCCTGAGGAAGGCCTGGGAGA
TGAATTTGACCTTATAGATCATTCTGACTTACACATTTTGGACTTTAGCCCTAGTCTGAAGACTCTGTGCAAACT
GGCCGTGATTAGTATAACCTAGACCAGTCTGTTGCTCATGATATCAGGTGGGAGCTGAATGCCATGACCAC
CAACAGCAATATCAGTCGCCCCATCGTCTCCTCCCATGGGTAGGAGGAAGTTTCTGCCACCTCCCCCTCCTGAGCC
TGCTGTATCTTCACTGCCCCGCCCCATCTGTACCCACCTGCTCCTTTGACCCCTGGACTTGGTATACCTCCAT
GTGGAGTTGTTGGGCGAGAGGTGTTCTCTGTGCTGTGAATTCAGTGGGGAGCTGTAGCGGGGTGGGGGCTAGGTT
CCTCCCCCTTGGGCCGAGGGCCCCCTTCCCCCTTGGTGCTCTGTCCCCATCCACCTCCTTTTCACTGCTCCTGGGC
CTCAGCTCTGCCCAGGGCCAGCCAGGTTCTGCTGGGAAGGGAAGGGAATGGGGAGAAGGGAGAAGCAAGCAGTGT
CTGAGCCTCAGGAGCTTCCCCCTCCCCCTTTGCCTATCCCCCTCCCCCTCTGCTTGAGCCTTGAGCCTTGACTGGGA
GCTGAAAGGAGTTGCAGCTGTTGGCATGAGACCTCCTTCTCCCCGTCTTGGGGAGGTGGGGACCAGCAGATAAAT
CCCACCCTTCTTGAGCTGTGCTGTACTCTGAAGTTCAGCCAGCTCAGATTTTATAAAAATTAATTAATAATCTC
CAAA

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FIGURE 1891

MLRWTVHLEGGPRRVNHA AVAVGHRVYSFGGYCSGEDYETLRQIDVHIFNAVSLRWTKLPPVKSAIRGQAPVVPY
MRYGHSTVLIDDTVLLWGGGRNDTEGACNVLYAFDVNTHKWFTPRVSGTVPGARDGHSACVLGKIMYIFGGYEQQA
DCFSNDIHKLDISTMTWTLIC TKGSPARWRDFHSATMLGSHMYVFGGRADRF GPFHSNNEIYCNRI RVFDTRTEA
WLD CPPTFVLPEGRRSHSAFGYNGELYIFGGYNARLNRHFHDLWKFN PVSFTWKKIEPKGKGPCPRRRQCCCI VG
DKIVLFGGTSPSP E E GLGDEFDLIDHSDLHILDFSPSLKTLCKLAVIQYNLDQSCLP HDIRWELNAMTTNSNISR
PIVSSHG

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FIGURE 1892

CCTTCAATGTGAAGCTAATATCTCCTATAGCATAGTTAATGTTTATTCAACAAATATTCATGCAGCGGAGTCAAG
AACACACCACGATGGCGGAGAAAGGAAGAGACGCCGAGCGGCCGAGTGCGGCCGAGCAAAGCCGGAGCCGGAGCG
GGGCCGAGGAGACGGGCGGGTCCGGACGGGCCGAGATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAA
GGTTGCCAAATGCACAGCCAAGCCTAGCAGCTCGGGCAAGGATGGTGGAGGCGAGAACACTGAGGAGGCCAGCC
GCAGCCCCAGCCCCAGCCCCAGCCCCAAGCCAGTCTCAGCCACCGTCATCCAACAAGCGTCCCAGCAATAGCAC
GCCGCCCCCAGCAGCTCAGCAAAATCAAGTACTCAGGGGGGCCCCAGATTGTCAAGAAGGAGCGACGGCAAAG
CTCCTCCCGCTTCAACCTCAGCAAGAATCGGGAGCTGCAGAAGCTTCCTGCCCTGAAAGATTCCGCCAACCCAGGA
GCGGGAGGAGCTGTTTATCCAGAAGCTACGCCAGTGCTGTGTCTCTTTGACTTCGTGTCAGACCCACTCAGTGA
CCTCAAATTCAAGGAGGTGAAGCGGGCAGGACTCAACGAGATGGTGGAGTACATCACCCTAGCCGTGATGTTGT
CACTGAGGCCATTTACCCTGAGGCTGTCAACATGTTTTTTCAGTGAACCTCTTCCGGACGCTGCCACCTTCATCGAA
TCCCACAGGGGCTGAGTTTGACCCAGAGGAAGATGAGCCACCCCTGGAAGCTGCTTGGCCACATCTCCAGCTCGT
GTATGAGTTCTTCTTACGTTTCTTGTAGTCTCCTGATTTCCAGCCAAACATAGCCAAGAAGTACATCGACCAGAA
GTTTGTACTTGCTCTCCTAGACCTATTTGACAGTGAGGATCCTCGAGAGCGGGACTTCCTCAAGACCATTTTGCA
TCGCATCTATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATCAACCACATCTTCTACAGGTTTCT
CTACGAGACGGAGCATCACAACGGGATTGCTGAGCTCCTGGAGATCCTGGGCAGCATCATCAATGGCTTTGCTCT
GCCCCTTAAAGAAGAGCACAAAGATGTTCTCATCCGTGTCTACTTCCCCCTTCAAGGTCAAGTCCCTGAGTGT
CTACCACCCTCAGCTGGCATACTGTGTGGTACAATTCTGGAGAAGGAGAGCAGTCTGACTGAGCCGGTAATTGT
GGGACTTCTCAAGTTTTTGGCCCAAGACCCACAGCCCCAAGGAGGTGATGTTCTTGAATGAGCTGGAGGAGATTCT
GGACGTCAATTGAACCTTCTGAGTTCAGCAAAGTGATGGAACCCCTCTTCCGCCAGCTGGCCAAGTGTGTCTCTAG
CCCCCATTTCCAGGTGGCAGAGCGTGCTCTCTATTACTGGAACAATGAGTACATCATGAGCCTGATAAGTGACAA
TGCTGCCCCGAGTCCCTCCCCATCATGTTCCCTGCACTCTACAGGAACTCCAAGAGCCACTGGAACAAGACAATCCA
TGGACTGATCTATAATGCCCTGAAGTTGTTTATGGAAATGAATCAGAAGCTGTTTGATGACTGCACACAACAATA
CAAGGCAGAGAAGCAGAAGGGCCGGTTCCGAATGAAGGAAAGGGAAGAGATGTGGCAAAAAATCGAGGAGCTGGC
CCGGCTTAATCCCCAGTATCCCATGTTCCGAGCCCCCTCCACCCTGCCCCCTGTGTACTCGATGGAGACAGAGAC
CCCCACAGCTGAGGACATCCAGCTTCTGAAGAGGACTGTGGAGACTGAGGCTGTTTCTAGATGCTAAAAGACATCAA
GAAGGAGAAAAGTGCTGCTGCGGAGGAAGTCGGAGCTGCCCCAGGACGTGTACACCATCAAGGCACTGGAGGCGCA
CAAGCGGGCGGAAGAGTTCCTAACTGCCAGCCAGGAGGCTCTCTGACCCCTCACGTTCTTACCACAGGGCCACAG
CCCACACAGCCCTGGGACACTGCCCTGGCCCTCCATACTCTGCTCCCTACTGGCTGTCTTGGGGGAAGGCAGCGC
CTCTCTAGCTACTCAAGGGAGGGGATGTGGGCACTTGAAGCAGGGACACCCACAGAATGGTCCCTCTTCTCCCC
AAAAGGTGTTTATGCCTCCCTGTGGCTAGTACAGGCTGAGCACTAAGATGCTTAGTGCTCAGACAACCTGGGGAT
GCCTGTCCCCCTACCTGCTCCTCACCCACAGCTACCTGAGGCTGCTCTGAGAAGTACACACAGGAATACATACGCT
CCTCTATTCTTCCCTTCTCCTCATTGTAACGCCAGGTATCTCCCTCCTCTCTCTCCCTGCAGAGGCATGTAG
GGAACAGCAGGAGATTATTCTACCAAAGTTATGTCAAGCCCCATTGGTCCCAGAGTAGCTGAAGGGAAGCCAAC
CCCCCTGCAGCACAAATAGGCCCCCAGTCCCAGCCGTGTGCTGGCAGATAGGGTTGTATTATTTCTTCTTACCC
CATGCCTGACCAAGGGAGGTCAAAGGAGAAAAGTATAGGCTGTGGACAATAACTGATGAATATAGGGCCAGAT
GGACCAAGTGGGGCCGGGAGGGATGAATAAACACCCCTACCCCGTGCCCTGTCTTTGGTGAGCAGCAGCCCTGGG
GTCACAGACATGGAAGGGACCACCCTGGGGCTGACTGCTTTTCTGTGCTGTTGGTTCCCAAACTAGAAAGAAGG
AAGCAGGGAGCGGTGCCCCAAGCATGGCTCCTGCCAACACCTATTTATTTCTTGTGCTATGCTGGGCAGG
CCTTCTCTGTCCCTTATAGGTACCTTGGAGGGGCCAGGGGCTGAGGAAGGCCGACCCAGGTTCAGGGGCGCA
GGCAGTGCGGCTTTTGGCTGTGTACATAGGGTGCTTTATTCTCCACAGAGTGATACATGCTAAGGTGGGTGGGC
TTGGACCGATGTCCCCATATGTACAGAACTGAATAAAGTGGGTCTCTG

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FIGURE 1893

MPYKLKKEKEPPKVAKCTAKPSSSGKDGGGENTEEAQPPQPQPQPQQAQSQPPSSNKRPSNSTPPPTQLSKIKYS
GGPQIVKKERRQSSSRFNLSKNRELQKLPALKDSPTQEREELFIQKLRQCCVLFDFVSDPLSDLKFKEVKRAGLN
EMVEYITHSRDVVTEAIYPEAVTMFSVNLFRITLPPSSNPTGAEFDPEDDEPTLEAAWPHLQLVYEFFLRFLFLESPD
FQPNIAKKYIDQKFVLALLDLFDSEDPREDFLKTILHRIYGKFLGLRAYIRRQINHFYRFIYETEHNGIAEL
LEILGSIINGFALPLKEEHKMFLIRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESLTPVIVGLLKFWPKTHSP
KEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNYIMSLISDNAARVLPIMFPAL
YRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQKQGRFRMKEREEMWQKIEELARLNPQYPMFRAP
PPLPPVYSMETETPTAEDIQLLKRTVETEAVQMLKDIKKEKVLLRRKSELPQDVYTIKALEAHKRAEEFLTASQE
AL

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FIGURE 1894

GAATTCCGCCCAGACGCAGGCTTCTTCTCGGGTCTTGGTCCTGCATCCTCTCTCTCCCAGAGCCTCCGTTAGGGG
GTGGGAAAGGACTTTGCCATAGGTCGCTGAGGCCACCATCTGCTCTCTTACTGGCCAAGGGCGTAAAAAGATAGT
CTTCCCATTAGCTAGAGAGCAAACCCAGAAAGCCTATTGGTTGCGCCGTCCGCGGGCCTTGGTCCGCTTTGAAG
GCGGGCTGCGGCTGCGAGAGGAGGGCGGGCGGGAGGCTAGCTGTTGTCTGCTGGTTGCTCGGAGGCACGTGTGCAGT
CCCGGAAGCGGCGAGGGGAAACTGCTCCGCGCGCGCCGCGGGAGGAGGAACCGCCCGGTCCTTTAGGGTCCGGG
CCCGGCCGGGCCATGGATTCAATGCCTGAGCCCGCGTCCCGCTGTCTTCTGCTTCTTCCCTTGCTGCTGCTGCTG
CTGCTGCTGCTGCCGGCCCCGGAGCTGGGCCCCGAGCCAGGCCGGAGCTGAGGAGAACGACTGGGTTCGCCTGCCC
AGCAAATGCGAAGTGTGTAAATATGTTGCTGTGGAGCTGAAGTCAGCCTTTGAGGAAACCGGCAAGACCAAGGAG
GTGATTGGCACGGGCTATGGCATCCTGGACCAGAAGGCCTCTGGAGTCAAATACACCAAGTCGGACTTGCGGTTA
ATCGAAGTCACTGAGACCATTTGCAAGAGGCTCCTGATTATAGCCTGCACAAGGAGAGGACCGGCAGCAATCGAT
TTGCCAAGGGCATGTCAGAGACCTTTGAGACATTACACAACCTGGTACACAAAGGGGTCAAGGTGGTTGATGGACA
TCCCCTATGAGCTGTGGAACGAGACTTCTGCAGAGGTGGCTGACCTCAAGAAXCAGTGTGATGTGCTGGTGGAAAG
AGTTTGAGGAGGTGATCGAGGACTGGTACAGGAACCACAGGAGGAAGACCTGACTGAATTC

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FIGURE 1895

MDSMPEPASRCLLLLPLLLLLLLLLLPAPELGPSQAGAEENDWVRLPSKCEVCKYVAVELKSAFEETGKTKEVIGT
GYGILDQKASGVKYTKSDLRLIEVTETICKRLLIIACTRRGPAAIDLPRACQRPLRHYYTTWYTKGSRW

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FIGURE 1896

TGATGAAACTGTAACTTACAAGAAAAGGGCTGGGTTTTGAAAATAACACAGGCTCTAAAAACCCTAAGAAGCGGT
GCAACTTTTGGCAGGAATCGGGGTTAGCGGGACCTCAAGGGCTCACTGCGGCTAAGTGAACGCTGACTGGTCCTC
CAGCGTGAGCTAGAACAGACGTCTCTATGGTCAAGTAAACAGAGCGTGTGCTGTCTTCCCATGTGGTGGGGTTG
CGCATGATCAGTAGCTGCACCACTAGAAAGATGGCGGAGCAAGAGCAAAGAAAAATCCCTTTGGTTCCAGAAAAT
CTCCTGAAAAAGAGGAAGGCTTATCAAGCCCTCAAAGCCACCCAGGCAAAGCAGGCACTTTTGGCAAAGAAGGAG
CAGAAGAAAGGAAAAGGGCTCAGGTTTAAAGCGACTGGAATCATTCTACATGATTCTGGCGGCAGAAACGTGAC
AAGGTGCGTCTCAGACGACTAGAAGTGAAACCTCATGCCTTGGAATTGCCAGATAAACATTCTTGGCCTTTGTT
GTACGCATCGAAAGGATTGACGGCGTGAGTTTACTGGTGCAGAGAACCATTGCAAGACTTCGCCTAAAGAAAATT
TTTAGTGGTGTCTTTGTAAAAGTCACCCCCCAGAATCTAAAAATGCTGCGTATAGTGGAACCTTATGTGACCTGG
GGATTTCCAAATCTGAAGTCTGTCCGAGAACTCATTTTGAAACGTGGACAAGCCAAGGTCAAGAATAAGACCATC
CCTCTGACAGACAATACAGTGATTGAGGAGCACCTGGGGAAGTTTGGCGTCATTTGCTTGGAAGACCTCATTCTAT
GAAATTGCCTTCCCAGGGAAGCATTTCCAGGAGATCTCATGGTCTTGTGCCCCTTTCCACCTCTCAGTGGCCCGT
CATGCTACCAAAAATAGAGTGGGCTTCCTCAAGGAGATGGGCACACCTGGCTATCGGGGTGAACGCATCAATCAG
CTCATCCGTGAGCTGAACTAGACCCAGGTGCCAAACTGCGGTAAATTTTTTATCAGTGAAGTGGAAGCATGTGTT
TTGTTTTGGAATTTTTATCAAGTATCTTCAGAGAAGATTATTCCTGCTTTATCTTCAGAACTGGAAAGGGTC
AAAGAAAAGACAGTAGCTGGCCGGTCTGTGGTGGCTCATGCCTGTAATCCCAACACTTAGGGAGGCTGAGGTGGGC
AGATCACCTGAGGTGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAATGCCATCTCTACTAAAAATACAAAA
ATTAGCCGGGCATGGTGGCACGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCT
GGGAGGTGGAAGTTGCAGTGAGCTGAGATCACGCCATTGCACTCCAGCCTGGGCAACAAGCGAAACTCTGTCTCA
AAAAAAAAGAAAAGACAGTAGCATATGTTTCATGTCAAGCACCTCTCATCACAGTCGAGTTCCAAGGAAAAATTC
AGTGTTTTCTGCATTGGGTGCTGTGTCTGAAATCGGCACATTCCATGGAGGAAGGAGTCCTGCTTTGTTGCA
TGTATCCTAGGGTTTAAATGTTGGTAAATGAGTCACTCTAGCATTTGTAGAAGGCTCCCTGAGACTCCTGCAGCAG
TCGACCAAGCCCAAGGACATAATTGAATCTGGAGAGTCCTGGGGCCTTGTTTTGAAAAGACTTGAAATACACAT
AGGAAGAAAGGCATAAAAATAAATGTTCACTTGTCTCTGC

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FIGURE 1897

MISSCTTRKMAEQEQRKIPLVPENLLKKRKAYQALKATQAKQALLAKKEQKKGKGLRFKRLESFLHDSWRQKRDK
VRLRRLEVKPHALELPDKHSLAFVVRIERIDGVSLLVQRTIARLRLKKIFSGVFVKVTPQNLKMLRIVEPYVTWG
FPNLKSVRELILKRGQAKVKNKTIPLTDNTVIEEHLGKFGVICLEDLIHEIAFP GKHFQEISWFLCPFHLSVARH
ATKNRVGFLKEMGTPGYRGERINQLIRQLN

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FIGURE 1898

GC GCCTGTCAGGGAAGCGGCGCGCGCGCGGGCGGCGGGCTGGGGATCCGCCGCGCAGTGCCAGCGCCAG
CGCCAGACCCGCGCCCCGCGCTCTCCGGCCCGTCGCCTGCCTTGGGACTCGCGAGCCCGCACTCCCGCCCTGCCT
GTTCGCTGCCCCAGTATGAGAGCTGCTGTGTTGCGAAGGCACCCGGCACGCGCCCCGGGCGGGCCGGACCCGCGG
CTGCTGGGGGACCAGCGTGTCTGTCAGAGCCTGCTCCGCCTGGAGGAGCGCTACGTACCCCGCGCCTCCTACTTC
CAGTGCGTGCAGCGGGAGATCAAGCCGCACATGCGGAAGATGCTGGCTTACTGGATGCTGGAGGTATGTGAGGAG
CAGCGCTGTGAGGAGGAAGTCTTCCCCCTGGCCATGAACTACCTGGATCGCTACCTGTCTTGGCTCCCCACCCGA
AAGGCGCAGTTGCAGCTCCTGGGTGCGGTCTGCATGCTGCTGGCCTCCAAGCTGCGCGAGACCACGCCCCTGACC
ATCGAAAACTGTGCATCTACACCGACCACGCTGTCTCTCCCCGCCAGTTGCGGGACTGGGAGGTGCTGGTCCTA
GGGAAGCTCAAGTGGGACCTGGCTGCTGTGATTGCACATGATTTCTGGCCTTCATTCTGCACCGGCTCTCTCTG
CCCCGTGACCGACAGGCCTTGGTCAAAAAGCATGCCCAGACCTTTTTGGCCCTCTGTGCTACAGATTATACCTTT
GCCATGTACCCGCCATCCATGATCGCCACGGGCAGCATTGGGGCTGCAGTGCAAGGCCTGGGTGCCTGCTCCATG
TCCGGGGATGAGCTCACAGAGCTGCTGGCAGGGATCACTGGCACTGAAGTGGACTGCCTGCGGGCCTGTCAGGAG
CAGATCGAAGCTGCACTCAGGGAGAGCCTCAGGGAAGCCTCTCAGACCAGCTCCAGCCAGCGCCCAAAGCCCC
CGGGGCTCCAGCAGCCAAGGGCCAGCCAGACCAGCACTCCTACAGATGTCACAGCCATACACCTGTAGCCCTGG
AGAGGCCCTCTGGAGTGGCCACTAAGCAGAGGAGGGGCCGCTGCCACCCACCTCCCTGCCTCCAGGAACCAACC
ACATCTAAGCCTGAAGGGGCGTCTGTTCCCCCTTCACAAAGCCCAAGGGATCTGGTCCTACCCATCCCCGAGTG
TGCACTAAGGGGCCCCGGCCAGCCATGTCTGCATTTCCGTGGCTAGTCAAGCTCCTCCTCCCTGCATCTGACCAGC
AGCGCCTTTCCCAACTCTAGCTGGGGGTGGGCCAGGCTGATGGGACAGAATTGGATACATACACCAGCATTCTTT
TTGAACGCCCCCCCCCACCCTGGGGGCTCTCATGTTTTCAACTGCCAAAATGCTCTAGTGCCTTTCTAAAGGTGT
TGTCCCTTCTAGGGTTATTGCATTTGGATTGGGGTCCCTCTAAAATTTAATGCATGATAGACACATATGAGGGGG
AATAGTCTAGATGGCTCCTCTCAGTACTTTGGAGGCCCTATGTAGTCCGTGCTGACAGCTGCTCCTAGAGGGGAG
GGGCCTAGGCCTCAGCCAGAGAAGCTATAAATTCCTCTTTGCTTTGCTTTCTGCTCAGCTTCTCCTGTGTGATTG
ACAGCTTTGCTGCTGAAGGCTCATTTTAAATTTATTAATTGCTTTGAGCACAACTTTAAGAGGACATAATGGGGGC
CTGGCCATCCCACAAGTGGTGGTAACCCTGGTGGTTGCTGTTTTCTCCCTTCTGCTACTGGCAAAGGATCTTT
GTGGCCAAGGAGCTGCTATAGCCTGGGGTGGGGTCATGCCCTCCTCTCCCATTGTCCCTCTGCCCCATCCTCCAG
CAGGGAAAATGCAGCAGGGATGCCCTGGAGGTGGCTGAGCCCCTGTCTAGAGAGGGAGGCAAGCCCTGTTGACAC
AGGTCTTTCTAAGGCTGCAAGGTTTAGGCTGGTGGCCAGGACCATCATCCTACTGTAATAAAGATGATTGTGA
AATAAACTGGCTTTGGCTTCTTGGAATAA

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FIGURE 1899

MELLCEGTRHAPRAGDPRL LGDQRLVLSLLRLEERYVPRASYFQCVQREIKPHMRKMLAYWMLEVCEEQRCEE
EVFPLAMNYLDRYLSCVPTRKAQLQLLGAVCM LLASKLRETTPLTIEKLCIYTDHAVSPRQLRDWEVLVLGKLKW
DLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALCATDYTFAMYPPSMIATGSIGAAVQGLGACSMGDEL
TELLAGITGTEVDCLRACQEQIEAALRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL

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FIGURE 1900

CACCGCGCAAGCGCATCCTGGCCTTTCTTCAGTCCCCACGTGCGATCCTTCCCGGCAACTTTTTTCGAGAAAAATG
CCCAAATTCAAGGCGGCCCCGTGGGGTGGGGGGTCAGGAAAAACATGCGCCCCTGGCCGATCAGATCCTGGCTGGG
AATGCGGTGCGGGCGGGGGTCCGGGAGAAGCGGCGGGGTGCGGGACAGGAGAAGCGGAGGAAGAGTATGTGGGG
CCCCGGCTGAGCCGACGGATTTTGCAGCAAGCACGGCAGCAACAGGAGGAACTCGAGGCCGAGCATGGGACTGGG
GACAAGCCCCGCGGCGCCGCGGGAACGCACCACGCGGCTGGGTCCAAGAATGCCTCAGGATGGATCAGATGACGAG
GACGAGGAGTGGCCCCACCCTGGAGAAGGCTGCCACAATGACAGCAGCGGGCCATCATGCAGAGGTGGTTGTGGAC
CCTGAGGATGAGCGTGCCATAGAGATGTTCATGAACAAGAACCCTCCTGCCAGGCGCACCCCTGGCTGACATCATC
ATGGAGAAGCTGACTGAGAAGCAGACAGAGGTTGAGACAGTCATGTCAGAGGTGTGGGGCTTCCCTATGCCCCAG
CTGGACCCCCGGGTCTAGAAGTGTACAGGGGGGTCCGGGAGGTATTATCTAAGTACCGCAGTGGA~~AA~~ACTGCC
AAGGCATTTAAGATCATCCCTGCACTCTCCAACCTGGGAGCAAATCCTCTACGTCACAGAGCCGGAGGCCTGGACT
GCAGCTGCCATGTACCAGGCCACCAGGATTTTTGCCTCTAACCTGAAGGAACGCATGGCCCAGCGCTTCTACAAC
CTTGTCCTGCTCCCTCGAGTACGAGATGACGTTGCTGAATACAAACGACTCAACTTCCATCTCTACATGGCTCTC
AAGAAGGCCCTTTTCAAACCTGGAGCCTGGTTCAAAGGGATCCTGATTCCACTGTGCGAGTCTGGCACTTGTACC
CTCCGGGAAGCCATCATTGTGGGTAGCATCATCACCAGTGCTCCATCCCTGTGTTGCACTCCAGTGCGGCCATG
CTGAAAATTGCTGAGATGGAATACAGCGGTGCCAACAGCATCTTCCTGCGACTGCTGCTGGATAAGAAGTATGCA
CTGCCTTACCGGGTGCTGGATGCCCTAGTCTTCCACTTCCCTGGGGTTCCGGACAGAGAAGCGTGAAGTGCCTGTG
CTGTGGCACCAGTGCCTCCTGACTTTGGTCCAGCGCTACAAGGCCGACTTGGCCACAGACCAGAAAGAGGCCCTC
TTAGAAGTGTCCGGCTGCAGCCCCATCCACAGCTATCGCCCGAAATCAGGCGTGAGCTTCAGAGTGCAGTCCCC
CGCGATGTGGAAGATGTTCCCATCACCGTGAGTGAGGAAAAACAGTCAGCTGTCTGGCCAAAGGGGTTTGAAG
GACACCAAGACCCCGTTGGTGACTGAAGATGACACTGAGCTTTAATGGCTGAAGACCCAGATCAGGGCAGTGAC
AGATCACAGGGACATCTGTGGCTCCAGTCCAGGACAGGAAGGACTGAGGGTCTGGCTGGTTCCCTCTTCCATT
TAGGCCCTTATCCCTGTTTGTAGTTCTGAGAGCCAACTTGAGATACCATATGCTAGCATTCCAGTCCCCAGCTGGG
GCTTGGTGTGAGTACTTTTTCTATGGCTATTGTGTGACGGTCACTGTGGATAAAGGCAAAGACAGATATTTATTGA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1901

MNKNPPARRTLADIIMEKLTEKQTEVETVMSEVSGFMPQLDPRVLEVYRGVREVL SKYRSGKLPKAFKIIPALS
NWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLLPRVRDDVAEYKRLNFHLYMALKKALFKPGAW
FKGILIPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDALV
FHFLGFRTEKRELPVLWHQCLLTLVQRYKADLATDQKEALLELLRLQPHQLSPEIRRELQSAVPRDVEDVPITV
E

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FIGURE 1902

CTTGGGGTGGGGACCGGGTGAGGGGCTGACGGCAGAGTCGGTCCAGAACTGCCCGGACAGCGACGCACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCCTCCTGGGGCCCCAGACGCCCCCTCCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGCTGTTAGTGGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACTCAGACAGTGACTCAGGCCACCTGCCGGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCTGTCTCTGCACCTGCTTAGAACATGGGGTTTTGACTTTAAACTCATTACAT
GAGTATTCATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAAGCATAAGAAGGGAAGCTGTTTTGGGGTGTGGGGCCTCCCCAGCCTCCCTCAAGGAAGA
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACTCAGTGAGGATCTGCAAGGAGGACCCTCCCAAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGGAAAGAAGGAGAAAGGAAAGAAAA
CCTAGTTTCACTCCTCCCTTTCTTCCATGTCTCCTCAGGGTCTTGCACTTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACCAACCAAGCCCCCAACTGGACTGGACTTCAGACCCCTCTGCAGCAACTCCCTCCGCAGGACATTGATGAGC
GCTACTGCCTGGCCCTTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCGCTGGTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGAGTACGGAGTGTGTCAGCCCCGGGCAGGGGAACAGCGTGTGGCACCAGCCTTGCTTTGCCTGCC
AGGCCTGTGGCCAGGCCCTGATAAACCTCATCTACTTCTACCATGATGGACAACTCTACTGCGGCCGTATCATG
CAGAGTTGCTGCGCCCGCTGCCCCGGCTTGACAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGGAC
AGCGCTGGCATGAGAACCATTCTGTTGCCAGGACTGCGCCGGGCCTCTGGGCGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCCTGCTGCCCCAGCTGCTTCGAGAACCCTACTCGGATGCAGGCTCGAGCTGGGCCGGGGCACTGG
AAGGGCAGGCATTCTTGGAGCGCCCCACCGCACCCCCCAGACCAAGCCTCGGGGCCGCGAGCTCTCACCGCG
CATCCCTGGCCGGAGCGTTCCAAGGGCCGCCCCGAACCCACCCCGCGCCGCGTGGGGTTGCGGCGCCAGACTCC
CTCCCAGGCGCGGGAGGCGGACGCCCTCTGGTGGAGGCGGGGACCCTGGCGAGGACTCTCGGCGGCGGCGGCGG
CGCGCACGGCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCCTACCCCCACTAGCTGCGGTGTAGTCCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGGCCCCGAACAGGGGAGACTGGACTCGACCGAACTGAAGGAAGGGAC
CAAACCTCGGTGAACCTCTGCAACCTCTCCCGAACACTCCTTGCTGCTGCCGGCGGTTCCAGCCTGCAAACTCAG
AGGGGGCTGCCTGGATCCAGTCCCCAGCAGGAGAACCGACCTGGGGACAAAGCGGAGGCACCCAAAGGGCAGGAG
CAATGCCGCTGGAGACTATTCTGTATCCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTTCTTAGGCGAGCGCCTTCCCCAGTCTTGGAAAGACCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCCTCTAAGACGCACTGCACCATGTGCTAGTGGCGCAGCTCAGAGAGGGGATGTGAGTGGGAGGAAAGGGGT
CTGTAAAGCGGGGAGAACAAGGCTAGCCTCCCCCTAACAATCCTAGACTGAGACGCAGTCAGGCGCACGCCCCGAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGCGCCCCCTTCACTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCCATTCCCCAAAGCTACGCTTCCCCTGCTGAGATAGCCCTACCCCCACCTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCTCCTCCCAAGCCAATTAAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGGAGCAGGGGACCGTAGAACCGGGCCGCGCTCCTCCCCTCCTAGAGTTCTGTGGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTGCGACTAAGCGAACAGCGCCCCCACTGCCGGCCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTACCGGCGACGCCGATACGGTTCTCCAGCGAGGCCCATGCGAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAAACTCCCGAAATACCGGACAACGTGGG
AGATTGGCTTGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGGAGGAACCTTGATACTAAATTTGGG
ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACCTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTA
GCCAAGTAGTTCTAATGCCACCTGTCGTCTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCCAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTGATGAG
GCATTTTTCTTCCCTTCCCTGCTTAGTTTCTTTTGTTCCTTGAGTCCACGCAGAATTCCATTCTCTGGTCAGC
AGACAGGCTTAAGCTAAAGTATTGCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTTGCTCTTGTCTGAGAAATAACAGTGCTGTTTTAAAAAACATTTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAA

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FIGURE 1903

MSPQGPAVLSIGSLCLDTNQAPNWTGLQTLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACGQALINLIYFYHDGQLYCGRHHAELLRPRCP
ACDQLIFSWRCTEAEGQRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAF LGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLP RRGRRTPSGGGGGPWRGLSAAAAARTAQGLGG
AGGWASPP LAAV

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FIGURE 1904

CTAGTTAAGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCCCTGGGTCCCGTCGTCTGTGATAC
TGCAGTTCAGCCATGGCAGAACCAGCCCCGTCGGCGGGCTCACGGACGAGGCCGCCCTCAGTTGCTGCTCC
GACGCGGACCCAGTACCAAGGATTTTCTATTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTG
GATTTTATAGTAGATTCTTGGGAATGACGCTAATCCAAAAATGTGATTTCCCATATGAAGTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAATGACATCCCTAAAGAAAAAGATGAAAAAATAGCCTGGGCGCTCTCCAGAAAA
GCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGCGACCCAGAGTTACCACAATGGCAATTCAGAC
CCTCGAGGATTCGGTCATATTGGAATTGCTGTTCCCTGATGTATACAGTGCTTGTAAGGTTTGAAGAACTGGGA
GTCAAATTTGTGAAGAAACCTGATGATGGTAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATTCTCCTTTGAGATTTCAGAAG
AAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCTAGGACTGATGGATCACTGTCCTCGATTCAA
TTATTCTTCAGTCCATTTCCCTTCTTATTTTCAGCTGTTCCCTTTTACCTAACTGTTTCAGTCATTCTGGTTTTCA
AGCAGTGCTTTATCTCATGTCCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGTTCCCT
TCAGAGGCTGCATTTGCCTTCTTCIGCCACCTAAATATTACTTCCCTTCAAATCTGCCTTTGAATCATCATTTTT
AAAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGGGGTTTTCAATTCCTCAGAAACAACTTTTTTCACAAC
GGAAAGGAAAGAACACTAGTGTCTTTTCAGTAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTACTCTTGAG
AGCAATTCAAATCATGCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTTGGGAAAGGGAGGAGGAAGGAAATGATATGGTACCCAGACACTGGGCTAGGCT
GCAACTTTATCTCATTTAATACTCCAGCTGTCATGTGAGAAAGAAAGCAGGCTAGGCATGTGAAATCACTTTCA
TGGATTATTAATGGATTTAAGAGGGCATCAATCAGCTCAACTCAAGATTTTCATAATCATTTTTAGTATTTAGATT
GTGCCTCAAAGTTGTAGTACCTCACAATACCTCCACTGGTTTTCTGTTGTAACCTTCAGTGAGTTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAGTCTTTAGTACAAAACCTGCTCT
AGGGACACCTGGTGATTCCCTACACAAGTGATGTTTATATTTCTCATAAAGAGTCTTCCCTATCCCAAGGTCTTCA
TGATGCCAGTAGCCATATATGATAAATTATGTTTCAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCC
CCGCCATGATTACATTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTGGAAAGGCCATGCCAA
CCGTGCTTGTACTGCTAGAAGCACTTTATGTTTCCTTTTTGGGTGAAATGGATTTATGTGAGTGCTTTAAACAAA
TAGCAATACTTATAGACTGAAATAAAATGAACTTCAAATAAG

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FIGURE 1905

MAEPQPPSGGLTDEAALSCCSDADPSTKDFLLQQTMLRVKDPKKSLEDFYTRVLGMTLIQKCDFFIMKFSLYFLAY
EDKNDIPKEKDEKIAWALSRKATLELTHNWGTEDDATQSYHNGNSDPRGFGHIGIAVPDVYSACKRFEELGVKFV
KKPDDGKMKGLAFIQDPDGYWIEILNPNKMATLM

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FIGURE 1906

ATGGGAGCTTCGGACCCGGAAGTGGCGCCCTGGGCTCGCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGA
GCCGGAGCTCGCGGCGGAGCGGCGGCGGGGGTCGAGGCTCGAGCTCGCGATCCACCGCCCGCGCACCGCGCACAT
CCTCGCCACCCTCGGCCTGCGGCTCAGCCCTCGGCCCCGAGGATGGATGGCGGGTCAGGGGGCCCTGGGGTCTGGG
GACAACGCCCCGACCACTGAGGCTCTTTTCGTGGCACTGGGCGCGGGCGTGACGGCGCTCAGCCATCCCCTGCTC
TACGTGAAGCTGCTCATCCAGGTGGGTCTAGAGCCGATGCCCCCACCCTTGGGACCAATGTGCTGGGGAGGAAG
GTCCTCTATCTGCCGAGCTTCTTCACCTACGCCAAGTACATCGTGCAAGTGGATGGTAAGATAGGGCTGTTCCGA
GGCCTGAGTCCCCGGCTGATGTCCAACGCCCTCTCTACTGTGACTCGGGGTAGCATGAAGAAGGTTTCCCTCCA
GATGAGATTGAGCAGGTTTCCAACAAGGATGATATGAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCCTAC
GAGATGATGATGCAGTGTGTGTCCCGCATGTTGGCCCCACCCCTGCAITGTCATCTCAATGCGCTGCATGGTCCAG
TTTGTGGGACGGGAGGCCAAGTACAGTGGTGTGTGAGCTCCATTGGGAAGATTTCAAAGAGGAAGGGCTGCTG
GGATTCTTCGTGGATTAAATCCCTCACCTCCTGGGCGATGTGGTTTTCTTGTGGGGCTGTAACCTGCTGGCCAC
TTCATCAATGCCTACCTGGTGGATGACAGCTTCAGCCAGGCCCTGGCCATCCGGAGCTATACCAAGTTCGTGATG
GGGATTGCAGTGAGCATGCTGACCTACCCCTTCTGCTAGTTGGCGACCTCATGGCTGTGAACAACCTGCGGGCTG
CAAGCTGGGCTCCCCCTTACTCCCCAGTGTTCAAATCCTGGATTCACTGCTGGAAGTACCTGAGTGTGCAGGGC
CAGCTCTTCCGAGGCTCCAGCCTGCTTTTCCGCCGGGTGTCATCAGGATCATGCTTTGCCCTGGAGTAACTGAA
TCATCTAAAAAACACGGTCTCAACCTGGCCACCGTGGGTGAGGCCTGACCACCTTGGGACACCTGCAAGACGACT
CCAACCCAACAACAACCAGATGTGCTCCAGCCAGCCGGGCTTCAGTTCCATATTTGCCATGTGTCTGTCCAGAT
GTGGGGTTGAGCGGGGGTGGGGCTGCACCCAGTGGATTGGGTACCCGGCAGACCTAGGGAAGGTGAGGCGAGGT
GGGGAGTTGGCAGAATCCCCATACCTCGCAGATTGCTGAGTCTGTCTTGTGCAGAGGGCCAGAGAATGGCTTAT
GGGGGGCCAGGTTGGATGGGGAAAGGCTAATGGGGTCAGACCCACCCCGTCTACCCCTCCAGTCAGCCAGCGC
CCATCCTGCAGCTCAGCTGGGAGCATCATTTCTCTGCTTTGTACATAGGGTGTGGTCCCCTGGCACGTGGCCACC
ATCATGTCTAGGCCTATGCTAGGAGGCAAATGGCCAGCTCTGCCTGTGTTTTTCTCAACACTACTTTTCTGATA
TGAGGGCAGCACCTGCCTCTGAATGGGAAATCATGCAACTACTCAGAATGTGTCTCCTCATCTAATGCTCATCT
GTTTAATGGTGATGCCTCGCGTACAGGATCTGGTTACCTGTGCAGTTGTGAATACCCAGAGGTTGGGCAGATCAG
TGTCTCTAGTCCTACCCAGTTTTAAAGTTCATGGTAAGATTTGACCTCATCTCCCGCAAATAAATGTATTGGTGA
TTTGAAAAA

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FIGURE 1907

MGASDPEVAPWARGGAAGMAGAGAGAGARGGAAAGVEARARDPPPAHRAHPRHPRPAAQPSARRMDGGSGGLGSG
DNAPTTEALFVALGAGVTALSHPLLYVKLLIQVGHEPMPTLGTNLGRKVLPLPSFFTYAKYIVQVDGKIGLFR
GLSPRLMSNALSTVTRGSMKKVFPPDEIEQVSNKDDMKTSKKVVKETS YEEMMQCVSRMLAHPLHVISMRCMVQ
FVGREAKYSGVLSSIGKIFKEEGLLGFFVGLIPHLLGDVVFLWGCNLLAHFINAYLVDDSFSQLAIRSYTKFVM
GIAVSMLTYPFLLVGDLMAVNNCGLQAGLPPYSPVFKSWIHCWKYLSVQGQLFRGSSLLFRRVSSGSCFALE

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FIGURE 1908

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCACCCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCCTCTTCCTT
GTCTTGGCCACCCAAATCCTGGTATCGAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCTATGGCGGCAATTCCCCCAGAT
TCCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
CCAAAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCCACAGAATTATC
AAAGACTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTCGAGGTGGTGTCATCTATCTATGGCAAACAGTTT
GAAGATGAACTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCCTCGCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTGGCCGAGTG
TGTCAGGGCATAGGAATGGTGAATCGCGTGGAATGGTAGAAACAACTCCCAGGACCGCCCTGTGGACGACGTG
AAGATCATTAAAGGCATACCCTTCTGGGTAGACTTGCTACCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAA
CCAGCTTCTAGATGACATAGAATGACATGTAATGCTAAATTTTCAATTTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAAATAGGATGCTTCTTTTCTCTTCCCCCAGTGCCTA
GGTTGCCAGAGCATTTCACAAATGCCCTGTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTGCATGTCTGCTCTGATATACGTCGAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAA
CCAACTTCTTCTTAAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAAGTAGTGTCTGTCAGCCCTCTTAACCTCTGTGCACGCCCTATTTTCAGTCTTTTACATTTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTCCCTCTCAAACAGCAACATCAACAGTGTGTTTCTGACACTTCAGACA
TCCCACGCAAAGCCACATTGAATTTTGGCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTAAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTATATGTTTCAGTT
GTTTATGTATAAAAAATAACTTTCTGGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1909

MAAIPDSWQPPNVYLETSMGIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPDNGSQFFVTLAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKI IKAYPSG

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FIGURE 1910

CGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCTCTTCGGCCCAGTGGACAGCGAGCAGCTGAGCCGCGAC
TGTGATGCGCTAATGGCGGGCTGCATCCAGGAGGCCCGTGAGCGATGGAACTTCGACTTTGTCACCGAGACACCA
CTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCCTTGGCCTGCCCAAGCTCTACCTTCCCACGGGGCCCCGG
CGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCACCTCACCTGCTCTGCTGCAGGGGACAGCAGAGGAA
GACCATGTGGACCA_GCCTGGCCAACATGGTGAAATCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGTGC
ACGCTTGTAATCCCAGCTACTTGGAAGGCTGAGGTGGGAGGATCACTTGAACCCAGGAGGCAGAGGTTGCAGTCA
GCTGAGATCATACCACTGTACTCCAGCCTCTTCCAGGGTGACAGTGAGATTCTCTCAAATAATACATAAATAA
AAAACGTGTTGGTAATATCTTCT

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FIGURE 1911

MAGCIQEARERWNFDFVTETPLEGDFAWERVRLGLPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEEDHVD
QPGQHGEISTKNTKISWAWWCTLVIPATWKAEVGGSLEPRRQRLQSAEIIPLYSSLFQGDSEIHLK

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FIGURE 1912

AGCTGAGGTGTGAGCAGCTGCCGAAGTCAGTTCCCTTGTGGAGCCGGAGCTGGGCGCGGATTGCGCGAGGCACCGA
GGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACAACAGGGGACCCCGGGCCGGCGGCCAGAGCCGAGCCAAGC
GTGCCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTCGCGGGTGTGTGCTGCGTTCACAGGTGTTTCTGC
GGCAGGCGCCATGTCAGAACCGGCTGGGGATGTCCGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCTCTT
CGGCCCAGTGGACAGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCAGGAGGCCCGTGA
GCGATGGAACCTTCGACTTTGTACCGAGACACCACTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCCTTGG
CCTGCCCAAGCTCTACCTTCCCACGGGGCCCCGGCGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCAC
CTCACCTGCTCTGCTGCAGGGGACAGCAGAGGAAGACCATGTGGACCTGTCAGTGTCTTGTACCTTGTGCCTCG
CTCAGGGGAGCAGGCTGAAGGGTCCCCAGGTGGACCTGGAGACTCTCAGGGTCGAAAACGGCGGCAGACCAGCAT
GACAGATTTCTACCACTCCAAACGCCGGCTGATCTTCTCCAAGAGGAAGCCCTAATCCGCCACAGGAAGCCTGC
AGTCTTGGAAGCGCAGGGCCCTCAAAGGCCCGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTA
TTATTTGTGTTTTAATTTAAACACCTCCTCATGTACATAACCTGGCCGCCCCCTGCCCCACAGCCTCTGGCATT
GAATTATTTAAACAAAACACTAGGCGGTTGAATGAGAGGTTCCCTAAGAGTGCTGGGCATTTTTATTTATGAAATA
CTATTTAAAGCCTCCTCATCCCGTGTCTCTCTTCTCTCTCCCGAGGTTGGGTGGGCGCGGCTTCATGCCAGC
TACTTCTCTCTCCCACTTGTCCGCTGGGTGGTACCTCTGGAGGGGTGTGGCTCCTTCCCATCGCTGTACAGG
CGGTTATGAAATTCACCCCTTTCTCTGGACACTCAGACCTGAATTCTTTTTCATTTGAGAAGTAAACAGATGGCA
CTTTGAAGGGGCCTCACCGAGTGGGGGCATCATCAAAACCTTTGGAGTCCCCTCACCTCCTCTAAGGTTGGGCAG
GGTGACCCTGAAGTGAGCACAGCCTAGGGCTGAGCTGGGGACCTGGTACCCTCCTGGCTCTTGATACCCCCCTCT
GTCTTGTGAAGGCAGGGGAAGGTGGGGTCTGGAGCAGACCACCCCGCTGCCCTCATGGCCCTCTGACCTGC
ACTGGGGAGCCCGTCTCAGTGTGAGCCTTTTCCCTCTTTGGCTCCCCTGTACCTTTTGAGGAGCCCCAGCTACC
CTTCTTCTCCAGCTGGGCTCTGCAATTCCTCTGCTGCTGTCCCTCCCCCTTGTCTTTCCCTTCAGTACCCTC
TCAGCTCCAGGTGGCTCTGAGGTGCCTGTCCACCCCCACCCCAGCTCAATGGACTGGAAGGGGAAGGGACACA
CAAGAAGAAGGGCACCCCTAGTTCTACCTCAGGCAGCTCAAGCAGCGACCGCCCCCTCCTCTAGCTGTGGGGGTGA
GGGTCCCATGTGGTGGCACAGGCCCCCTTGAGTGGGGTTATCTCTGTGTTAGGGGTATATGATGGGGGAGTAGAT
CTTTCTAGGAGGGAGACACTGGCCCCCTCAAATCGTCCAGCGACCTTCCTCATCCACCCATCCCTCCCCAGTTCA
TTGCACTTTGATTAGCAGCGGAACAAGGAGTCAGACATTTTAAGATGGTGGCAGTAGAGGCTATGGACAGGGCAT
GCCACGTGGGCTCATATGGGGCTGGGAGTAGTTGTCTTTCCTGGCACTAACGTTGAGCCCCCTGGAGGCACTGAAG
TGCTTAGTGTACTTGGAGTATTGGGGTCTGACCCCAAACACCTTCCAGCTCCTGTAACATACTGGCCTGGACTGT
TTTCTCTCGGCTCCCCATGTGTCTGGTTCCCGTTTCTCCACCTAGACTGTAAACCTCTCGAGGGCAGGGACCAC
ACCCTGTACTGTTCTGTGTCTTTACAGCTCCTCCCAATGCTGAATATACAGCAGGTGCTCAATAAATGATTC
TTAGTGACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1913

MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDFAWERVRLGLPK
LYLPTGPRRGRDELGGGRRPGTSPALLQGTAEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGRKRRQTSMTDF
YHSKRRLIFSRRKP

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FIGURE 1914

AATAAAGGCGAGGAGAAGGCGGTGGTCCGCCATTTCGTGGACGCCGGGTGAGTGAGAGAGTTGGTTGGTGTGGG
CCGGAGGAAAGCGGGAAGACTCATCGGAGCGTGTGGATTTGAGCCGCCGCATTTTTTAACCCTAGATCTCGAAAT
GCATCGTGATTCTGTCCATTGGACTGTAAGGTTTATGTAGGCAATCTTGAAACAATGGCAACAAGACGGAATT
GGAACGGGCTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTTGCTTTTGT
TGAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAAGAACACTATGTGGCTGCCGTGT
AAGAGTGGAAGTGTGCAATGGTGAAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGTGCGCCCTCG
AGATGATTATCGTAGGAGGAGTCCCTCCACCTCGTCGCAGAGTCACCATCATGTCTCTTCTCACCACCCTCTGAAT
CTGCATTAGCCAGTCAACTAGCCCTTTCAGCGTCATGTGACCAGCGCGCCCATTCAGCTTGGCTGGTGTGCTTTT
CACATGACCCAGGCTGGCCAGTCGTCAAGTTGACCCGCCCTTTGGTTCCCGAGCATGTGTTTTCTCTCAGCCTT
CTCTCCAACCTTAACCAAATCGGCAGCAGCCACCTCGACCGCCACACATTCTGGCCAATCAGCTCAGCTGTTT
ATTTACCAAATGTCTTCAACAACACTACAGCAGCAGCCTTCGGCTAACAAAAAGCAGGAAAAATCCACAACACC
CCCTTCGCCAACCAACTAAATCCAACGCAACATCTGGCAAAACCTTTTCAGCAAATCTTCTGGCCGTCAGTCC
GGCAGCCTCACCTCACCATTTCTAGCTTGTGAAACCCAAAACTAATCTCCAAGAAGGAGAAGCTTCTCTCGCAG
CCGGAGCAGGTCCCTTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCCG
ATCCTTCTCTAGGTCTCGTAGTCGATCTAGGTCAAATGAAAGGAAATAGAAGACAGTTTGCAAGAGAAGTGGTGT
ACAGGAAATTACTTCAATTTGACAGGAGTATGTACAGAAAAATCAAGTTTGTGTTGAGACTTCATAAGCTTGGTGC
ATTTTAAAGATGTTTTAGCTGTTCAAATCTGTTTGTCTCTTGAAACAGTGACACAAAGGTGTAATTCTCTATGGT
TTGAAATGGATCATACGAGGCATGTAATACCAAGAATTGTTACTTTACAATGTTCCCTTAAGCAAAATTGAATTT
GCTTTGAACTTTTAGTTATGCACAGACTGATAATAAACCTCTAAACCTGCCAGCGGAAGTGTGTTTTTTTTTAA
ATTTAAATACAGAAACAACCTGGCAAAATTTGAACTAAGATTTACTTTTTTTTCCATAGCTGGGATATAGGCTGCA
GCTATAGTTGAACAAGCAGTCTTTAAAACTGCTGTGAAACACAGGCCATCAGGGAAAACGAAATGCTGCACTAT
TAAATTAGAGGTTTTTGAATAATCCAACCTCTCATCCTGGGCAGAGGTTGCCTAGTTGGTATAGAATGTTAAGTTT
CAAGAAAGTTTACCTTTGCTTTAGGTCTATAAGTTCCCTATTTGATTGCTGTATATGGATACATGGCTGTTCTGTA
CATTCCTTTATGTGCAAATTTGTGATTTCAAAAAATGTCCTGCCAGTTTAAGGGTACATTGTAGAGCCGAACTTTGA
GTTACTGTGCAAGATTTTTTTTTTTCATGCTGTCAATTTGTAATATGTTTTGTGAGAATCCTTGGGATTAAAGTTTTG
GTTACAAATGTTCTTTAACTTGAAAGCCTGTTTTTCTTGCAAACTCAAATCTGTGAGCTTGGTACCAAGTCCA
GGTATAACATTTCCTATTGGAAGCCATACTTATATTTTCTTGTAAGTGCTTTTGAATTAATAAAATATTAGCATA
ATTGTGTATAGTCAGTTGAACCCACTGTTACCATTGTTCTTATCCCATGGGAAGCAGTTGGTTACACGATTCTTA
TTTTATAAGAAACAGCTGAGAGGCACTATGGATTAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAGTGA
TAGTTAACCCATTTTTTTTTTTTTTAGGCATAGAAGCCAGTTCAGGGTCCATAATATTTAGTGACCAACATTTTA
AAGTATAGCAGCAACCTGGTTCTTAAACACAAAGTAAGTTGCCCATTAACAAATGGCTTTTATCTTTAGCATGAA
AACTTTCCACAGGTCTAAAAATTGCTTCCATTTTATAATTTGAGGTGTTGCATGGGAATTCTAAGCTGATCCATC
ATGATGTAAAAGTTCACAATATGGTTCAAATGTAACAGTCAGAAATTGAATATGGAGGCATGCATAACCTTCCTC
TTAGAAAAATGGCAGGTGTTGTAATTTCAAATTTTTGTGCAATTAGATTAAATCATAATGCAACAGT

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FIGURE 1915

MHRDSCPLDCKVYVGNLGNNGNKTELERAFFGYYGPLRSVWVARNPFGFAFVEFEDPRDAADAVRELDGRTL CGCR
VRVELSNGEKRSRNRGPPPSWGRRPRDDYRRRSPPFRRRVTIMSLTTL

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FIGURE 1916A

GGTCTCACCATGGAGCGGAAAGTGCTTGCCTCCAGGCCCGAAAGAAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTTCAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTTCAACTA
CTAGATGACTTTAAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTTGAAGTTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAAATTATTTCAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTCGGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCCCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAAGAGTCGGGC
CCTGGGCAAAAAAGACCAAACAAGCAAGAAGAATCAGAGAGTCCTGTTGAAAGACCCTTGAAAGAGAACCCACCT
AATAAAATGACCCAAGAAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTC
CTAAGCTCCCAAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCTCAACTGTAGGTCAGTCATTGAGTGAACAACACATTAGCCAACTTCAAGAA
AGCATTGGGGCAGAGATACCTGTGAAGATGAACAAGAGCAAGAACATAACGGACCACTGGACAACAAAGGAAAA
TCCACGGCTGGAAATTTTCTTGTTAATCCCCTTGAGCCAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAATGCTTGTGTTGGCACAAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTTCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTGAGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAATCTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAATATTCCAAGGAATTTTTCACCAAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTTGAGGTTCTAGTGGAGAAGTATGAGTGGTCGCAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCTTGGCTTAACCTCCTAGCCCTGCCAGCACCACAGCAGAGATCACACACTGACCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTCTCCCTTTTCAGGGTGAAGCTCTTCTTCAAGAGTTTCTAGATCTTGTTTTTTTTT
AATCCAACATGTTTCAATTTGGGTTTGCTTACTTGACCCTGTGGAGATCCCCACAGCCATTGGGCATCCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCTCT
CCCATTAGGACATCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAACTTGCTGTGTCCGGGCTGCATCATCTTCTGGACTGTTTCTGTGTGT
TCTCTGTGTTACATTTTTTCTGCAACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTTCATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAACAGAACCATTGAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCCTTTCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGTTGGTTGTTTTGTTTTATTTTTTGT
TTGTATCCATGGCTGGCACTTTACTCATTGCACCTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCCTGCTTTTCATGTACAGCTTTTTCTTTACCTTACCCAAAATCTGGCCTTGAAGCAGTTTTCTCTATGGCT
TTGCCCTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCACTTTTTTTTTGTTGGTCTTGTGTTTTGTTTTGTTGGTTGGTTGTTGTTATTTTTTAAAGATTAGCCAT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACAGTGAGGCTATTGGGTAACCACCTTCTATACAGGAGATTGGAATC
TACTTTGTCATTTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

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FIGURE 1916B

TTACTCTGAGTAACTGGCCAGCCATTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTTCCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACCTCATTGGAATGCTTCTCC
ACCAAATAAGGGCTTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAAGCCCTAAATACATTTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCCGTACAATAAACAATTATTTAATAACCTA

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FIGURE 1917

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLLDD
FKISGVNGTHICMVFEVLGHHLLKWIISNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAEELLEKRMQEIEEMEKESESGPGQ
KRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGDQDTLMERDTEGGAAEINCNGVIEVINYTONSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCPTITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEHEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVPRKLIIVAGKYSKEFFTCKGDLKHIT
KLKPWGLFEVLVEKYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

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FIGURE 1918A

GGGCCGGCTCGCGGGCGCTGCCAGTCTCGGGCGGCGGTGTCCGGCGCGCGGGCGGCCTGCTGGGCGGGCTGAAGG
GTTAGCGGAGCACGGGGCAAGGCGGAGAGTGACGGAGTCGGCGAGCCCCCGGGCGACAGGTTCTCTACTTAAAG
ACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGAT
ATTACCTCCAAAAAAGACAGGGGAGTATTAAAGATTGTCAAAGAGTGGGAATGGTGAGGAAACGCCGATGATT
GGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAGTCATGATAGAAAT
GAACCATTTGTCTTTAGTCTTGCCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAA
GGAGAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAATTCCCTCG
AATGCAACTCTCTTTTTTGGAGATTGAGCTCCTTGATTTCAAAGGAGAGGATTTATTTGAAGATGGAGGCATTATC
CGGAGAACCAACGGAAAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAGGC
CGCTGTGGTGAAGGATGTTTGAAGTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATTCCA
ATTGGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGTATTTTATATCTTGGACCAAGATATGGT
TTTGGAGAGGCAGGGAAGCCTAAATTTGGCATTGAACCTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGC
TTCGAAAAGGCCAAAGAATCCTGGGAGATGGATACCAAAGAAAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAG
GGAACCGTATACTTCAAGGGAGGCAAATACATGCAGGCGGTGATTCAGTATGGGAAGATAGTGTCTGGTTAGAG
ATGGAATATGGTTTTATCAGAAAAGGAATCGAAAGCTTCTGAATCATTCTCCTTGCTGCCTTTCTGAACCTGGCC
ATGTGCTACCTGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGCCCTTGGACTGGACAGTGCC
AATGAGAAAGGCTTGATAGGAGGGGTGAAGCCAGCTGCTCATGAACGAGTTTGAGTCAGCCAAGGGTGACTTT
GAGAAAAGTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAG
GAGCACAAACGAGCGGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTTGAGAGCAGGATGCCAAGGAAGAG
GCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAAAAAGGAACAGACAGTCAAGCAATGGAA
GAAGAGAAACCTGAGGGCCACGTATGACGCCACGCCAAGGAGGGAAGAGTCCAGTGAACCTCGGCCCTCCTCAA
TGGGCTTTCCCCCAACTCAGGACAGAACAGTGTTTAAATGTAAAGTTTGTTATAGTCTATGTGATTCTGGAAGCAA
ATGGCAAAACAGTAGCTTTCCCAAAACAGCCCCCTGCTGCTGCCCGGAGGGTTCACTGAGGGGTGGCACGGGA
CCACTCCAGGTGGAACAAACAGAAATGACTGTGGTGTGGAGGGAGTGAGCCAGCAGCTTAAGTCCAGCTCATTTC
AGTTTCTATCAACCTTCAAGTATCCAATTCAGGGTCCCTGGAGATCATCCTAACAAATGTGGGGCTGTTAGGTTTT
ACCTTTGAACCTTTCATAGCACTGCAGAAACCTTTTAAAAAAAATGCTTCATGAATTTCTCCTTTCTACAGTTG
GGTAGGGTAGGGGAAGGAGGATAAGCTTTTGTTTTTTAAATGACTGAAGTGCTATAAATGTAGTCTGTTGCATTT
TTAACCAACAGAACCCACAGTAGAGGGGTCTCATGTCTCCCAAGTCCACAGCAGTGTCACAGACGTGAAAGCCA
GAACCTCAGAGGCCACTTGCTTGCTGACTTAGCCTCCTCCCAAAGTCCCCCTCCTCAGCCAGCCTCCTTGTGAGA
GTGGCTTTCTACCACACACAGCCTGTCCCTGGGGGAGTAATTCTGTCAATTCCTAAACACCCTTCAGCAATGATA
ATGAGCAGATGAGAGTTTCTGGATTAGCTTTTCTATTTTCGATGAAGTTCTGAGATACTGAAATGTGAAAAGAG
CAATCAGAATTGTGCTTTTTCTCCCTCCTCTATTCCTTTTAGGGAATAATATTCAATACACAGTACTTCTCTCC
AGCATTGCTACTGCTCAGCTTCTTCTTTTATTCTAATCCTTGCTATTAAGAATTTAAGACTTGTGCTTACAATAT
TTTTGACCTGGAGTGGATCTATTTACATAGTCATTTAGGATCCATGCAGCTTTTTTTGTCTTTTTTAAGATTATTG
GCTCATAAGCATATGTATACTGGTTTATGGAACCTTATTTACACTCCTCTATCATGCAAAAAAATTTTGACTTTT
TAGTACTAAGCTTAATTTTTTAAAAACAAAATCTGTAGTGTTGACAAATAAATAGTTGCTCTTCTACACTAGGGGT
TTCACCTGCAGGTTTGACACGCAGTTGCTCGCTTTTCCCTGCCCTGTCAAGCTTCTCTGTTCTGGCGTGAGTTGTG
AAAGAGTTGAAGACAGCTTCCCATGCCGTACACAGCCAGTAGCCTAAATCTCCAGTACTTGAGCTGACCATTGA
ACTAGGGCAAGTCTTAAATGTGTACATGTAGTTGAATTTCACTCCTTACGGGTAAACAGATTGAGCATGGCTCTC
TATTCCTCAGCCTAAGAAACACTCATGGGAATGCATTTGGCAACCCAAGGAACCATTGTGCTTAAACCTGGAACA
TCTCACCTTTTTTAAATCCTAAAAACACTGGCAGTTATATTTTAAATTAGTTTTTATTTTTATGATGGTTTTATC
AAAAGACTTTTTATTATTAGATTGGGACCCCTTCAAACCTAAAAATCAAGTTATTTCTTTTTATAATACTTTTCT
TCCCCATGGAACAAATGGGATCAATTTGTGAGTTTTTTCTTTTAAATGATAACTAAAATCCCTCTAATTTCTCATT
TATGCTTTTGTCTTTTTTATGAAATATTTCTTTTAAAGCCCCAGTCTCACCTACGAAATATGAAGAGCAAAAGC
TGATTTTGCTTACTTGCTAAACTGTTGGGAAAGCTCTGTAGAGCATGGTTCCAGTGAGGCCAAGATTGAAATTTG
ATACTAAAAGGCCACCTAGCTTTTTTGAGATAACAAACAAGAAAGCTATTCCAAGACTCAGATGATGCCAGCTG
TCTCCACGTGTGTATTATGGTTCAACAGGGGGAAGTGGCAAAAGTGTGTGTGGGGAGGGGAAGGGTGTGTGAGT
GGTTCTGAGCAATAACTACAGGGTGCCCATTACCACTCAAGAAGACACTTCAGTATTCTTGTATCAAATTCAA

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FIGURE 1918B

TAATCTTAAACAATTTGTGTAGAAGTCCACAGACATCTTTCAACCACCTTTTAGGCTGCATATGGATTGCCAAGT
CAGCATATGAGGAATTAAAGACATTGTTTTAAAAAAAAAAAAATCATTAGATGCACTTTTTTGTGTGTTCTTAA
AATAAATCCAAAAAAAAATGTGAAAAAAAAAAAA

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FIGURE 1919

MTTDEGAKNNEESPTATVAEQGEDITSKKDRGVLKIVKRVNGEETPMIGDKVYVHYKGKLSNGKKFDSSHDRNE
PFVFSLGKGQVIKAWDIGVATMKKGEICHLLCKPEYAYGSAGSLPKIPSNATLFFEIELLDFKGEDLFEDGGIIR
RTKRKGEGYSNPNEGATVEIHLEGRCGGRMFDCRDVAFTVGEGEDHDIPIGIDKALEKMQREEQCILYLGPYGF
GEAGKPKFGIEPNAELIYEVTLKSFEKAKESWEMDTKEKLEQAAIVKEKGTVYFKGGKYMQAVIQYGKIVSWLEM
EYGLSEKESKASESFLLAFLNLAMCYLKLREYTKAVECCDKALGLDSANEKGLYRRGEAQLLMNEFESAKGDFE
KVLEVNPQNKAARLQISMCQKKAKEHNERDRRIYANMFKKFAEQDAKEEANKAMGKKTSEGV TNEKGTDSQAMEE
EKPEGHV

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FIGURE 1920

CGCCACCATGGTGTGCGTGAACGTCCTGGCCGATGCTCTCAAGAGCATCAACAATGCCGAAAAGAGAGGGCAAACG
CCCAGTGCTTATTAGGCCGTGCTCCAACTCATCGTCCGGTTTCTCACTGTGATGATGAAGCATGGTTACATTGG
CGAATTTGAAATCATTGATGATCGCAGAGCTGGGAAAATTGTTGCGAACCTCACAGGCAGGCTAAACAAGTGTGG
AGTGATCAGCCCCAGATTCGGTGTGCAACTCAAAGATCTAGAAAATGGCAGAATAATCTGCTTCCATCCCACCAG
TTTGTTTTTATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGAAGCAAGACGAAAACACACAGGAGGG
AAAATCCTGGGATTCTTTTTCTAGGGATGTAATACATATATTTACAAATAAAATGTCTCATGGAAAAAAAAGAAA
AAAGACAGGAAAAAAAAAAAAAAAAAAAAAAT

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FIGURE 1921

GCCTCCCGCTCCAGCCCGGCTCATTCCGCACATTCCGGCCAGCCCCCTCCCCACGACCCCCCTTCCCCGGCCCC
CTTGCGGCTCCCTCGGGCCCGGCGGAGCGGCCCGGCGAGCGCCCCCGCGAGCTCGGACCAGGCTCAGCCGCCC
AGTGGGCTCAGGCCCAGAGCCCAGAGCAACCAGCACAATAGCGTCCAACAGCTGGAACGCCAGCAGCAGCCCCGG
GGAGGCCCGGAGGATGGGCCCCGAGGGCCTGGACAAGGGGCTGGACAACGATGCGGAGGGCGTGTGGAGCCCCGA
CATCGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTACCCGCCCTGCGGCCGGCGGAAGATCATCCTGTAGACGA
GGGCAAGATGTACGGCCGAAATGAGTTGATTGCACGCTATATTAACTGAGGACGGGGAAGACTCGGACGAGAAA
ACAGGTGTCCAGCCACATACAGGTTCTAGCTCGGAAGAAGGTGCGGGAGTACCAGGTTGGCATCAAGGCCATGAA
CCTGGACCAGGTCTCCAAGGACAAAGCCCTTCAGAGCATGGCGTCCATGTCTCTGCCAGATCGTCTCTGCCAG
TGTCTTGCAACAAGTTTCCAGCCACCTTCCCCCTCTGCCCCAGGCCGTCTTCTCCACTTCCCTCGCGTTCTGGAG
CAGCCCCCTCTCCTGGGACAGCAGCCTGGACCCTCTCAGGACATCAAGCCCTTTGCACAGCCAGCCTACCCAT
CCAGCCGCCCTGCGGCCGACGCTCAGCAGTTATGAGCCCTGGCCCCGCTCCCCTCAGCTGCTGCCTCTGTGCC
TGTGTGGCAGGACCGTACCATTGCCTCCTCCCGCTGCGGCTCCTGGAGTATTACGCTTCATGGAGGTGCAGCG
AGACCCTGACACGTACAGCAAACACCTGTTTGTGCACATCGGCCAGACGAACCCCGCTTCTCAGACCCACCCCT
GGAGGCAGTAGATGTGCGCCAGATCTATGACAAATTCCCCGAGAAAAAGGGAGGATTGAAGGAGCTCTATGAGAA
GGGGCCCCCTAATGCCTTCTTCTTGTCAAGTTCTGGGCCGACCTCAACAGCACCATCCAGGAGGGCCCCGGGAGC
CTTCTATGGGGTCAGCTCTCAGTACAGCTCTGCTGATAGCATGACCATCAGCGTCTCCACCAAGGTGTGCTCCTT
TGGCAAACAGGTGGTAGAGAAGGTGGAGACTGAGTATGCCAGGCTGGAGAACGGGCGCTTTGTGTACCGTATCCA
CCGCTCGCCCATGTGCGAGTACATGATCAACTTCATCCACAAGCTGAAGCACCTGCCCGAGAAGTACATGATGAA
CAGCGTGTGGAGAACTTACCATCCTGCAGGTGGTCACGAGCCGGGACTCCAGGAGACCCTGCTTGTATTGC
TTTTGTCTTCGAAGTCTCCACCAGTGAGCACGGGGCCAGCACCATGTCTACAAGCTCGTCAAAGACTAGGGTGC
CCTCTGCGCCTCCTTAAGGATGCAGGGTGAGCATCTCCTCTCCACACCTGCCTGGCACCCTGGGGGGTCCAGG
ATTGAGGATTCTCTACCTGCCAGGCCTCAGGCCAGGACCAGGAGGCTCCCCACCTACCCAGCACACACAC
TCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGGGCTCAGCGGTGGGGCAGCCTGTCCG
GGGCGCTGACCCACCATACCCTGCTCTGCCAGCCTCGCGTGACCTCAGAGAGGTGGGGATAGGGGACACCTTC
AGCCTCCAGCATGTGTGGCCACTGTACCCCCACCCACCTTGGGGGAGCATGATGGGCAGGTGAGGGCAGGATGG
AGACCAAGGGAGTCAGTGAGCAGAGGCCCTGGGAGTGTCCGGTTGGGGTTGGACTGAGGACAGAGGGGGCCACAC
TTCCTTGCCCCCTTTGTGTCCAGGCCTGGTGCCAGACTCCTTGTCATGGCTTGTGTGGTCTCAGACTCCGCACA
GCGAGCGTAGGTCTCTGGGTTTTCAGATGAAGTGCCAGGCTCCAGGAAGTTGAGGGACCCACAGGAGAGGTGGGC
AGAGCTGGAGTTCTCATCCAGGGCTGCTTGTCCCCAGAGCCAGGTTTATACTACCTCCCTGGGGCGGGGGCTGG
CCGAGGGTAGGGGAGAGGCTCTGCAGTGTGGAGTGGAGCCTCATCGAGGGGCGCTGGGTTAGGGGAGCACCTGT
TTCAGACTGGGCATGAAGAAGGGAGCACAGCAGCTACTAGACCCCATTAGCACCTCATTAGCCACAAAGCCAGCC
AGGGGCCCCAGGAAGATGGGGCACCCCCCAGCACCTCCAGATTGAGAGCAAGGTAGAGGAAGGAGTCCAGCCT
CTGGGCAGACCAGAGGCCAGAGGGAGAGAGTAGCAGAAGGCTTTTGATTTTCTCTTGCCTGAGGCTTGAATCT
GACAAACCTTGGTGGGCACTGCTCCCTTAGGTTCTTCCCCACCTCAATCTACCTGCCTAGAGTAGCAGCTCCCA
GACCCAGTTCTGGGACTGAAGGTTAACCTTCACCTGCTGTCCCTTCTTAACACCCAGGCCCCCAGAGCCAGCTG
GGCCTGTCCAGCAGCCACCTGTGGGTATTTATGAGTTTCATATGAAGTACTGTGCCCTTCCCTTCCTCATCCCG
ACCTGCCCCGAGCTTCTGAAGGTCTCACTGTTTGCATATCGCTCAGGCCACCTCCAAACCCACCTAGGTTTT
ATAATGTATATTATATATTTTTTTGTGTATTTTTTAAATCCAGCTGTGATGGGTATATCATAAATGCAGCTTGG
GGTTGGAGCAGGGGCCCTCAAAGGCCAGCTCCTGCTC

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FIGURE 1922

GCGGCGTGAGAAGCCATGAGCAGCAAAGTCTCTCGCGACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACGGG
AACCAGCGCAAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGATCCCCAGAAG
GACAAGCGCTTCTCGGGCACCGTCAGGCTTAAGTCCACTCCCCGCCCTAAGTTCTCTGTGTGTGTCCTGGGGGAC
CAGCAGCACTGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAACAAG
AATAAAAACTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATT
CCACGAATCCTCGGCCCAGGTTTAAATAAGGCAGGAAAGTTCCCTTCCCTGCTCACACACAACGAAAACATGGTG
GCCAAAGTGATGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGT
CACGTGAAGATGACAGACGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTCAATTGCTCAAG
AAAACTGGCAGAATGTCCGGGCCTTATATATCAAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACA
TTTGAATAAATTCTATTACCAGTTC

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FIGURE 1923

MSSKVSRTLYEAVREVLHGNQRKRRKFLETVELQISLKNYDPQDKRFSGTVRLKSTPRPKFSVCVLGDQQHCD
EAKAVDIPHMDIEALKKLNKNKKLVKKLAKKYDAFLASESLIKQIPRILGPGLNKAGKFPSSLTHNENMVAKVDE
VKSTIKFQMKKVLCLAVAVGHVKMTDDELVYNHILAVNFLVSLKKKNWQNVRALYIKSTMGKPQRLY

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FIGURE 1924

GTGAGTTTACCCCTATGAGACTGTGAGAGGCCCGGGGCCTACCTCAAAGGAGCGGGGTCGCGAAGCTAGCTAGCA
GCGGCCCCCTCCAGGTCCCCGGGCCCCGGCGGCGGGCGGGCCTTGGTTGTGAAGAGGCGGGGAAGCGGGTGTC
CGGTCCCCGCCATGGGAGGGCATGGACGTAGACCTGGACCCGGAGCTGATGCAGAAAGTTCAGCTGCCTGGGCACCA
CCGACAAGGACGTGCTCATCTCCGAGTTCAGAGGCTGCTCGGCTTCCAGCTCAATCCTGCCGGTTGCGCCTTCT
TCCTGGACATGACCAACTGGAACCTACAAGCAGCAATTGGCGCCTATTATGACTTTGAGAGCCCCAAACATCAGTG
TGCCCTCTATGTCCTTTGTTGAAGATGTCACCATAGGAGAAGGGGAGTCAATACCTCCGGATACTCAGTTTGTA
AAACATGGCGGATCCAGAATTCTGGGGCAGAGGCCTGGCCTCCAGGGGTTTGTCTTAAATATGTCGGGGGAGACC
AATTTGGACATGTGAACATGGTGATGGTGAGATCGCTAGAGCCCCAAGAGATTGCAGATGTCAGCGTCCAGATGT
GCAGCCCCAGCAGAGCAGGAATGTATCAGGGACAGTGGCGGATGTGCACTGCTACAGGACTCTACTATGGAGATG
TCATCTGGGTGATTCTCAGTGTGGAGGTGGGTGGACTTTTAGGAGTAACGCAGCAGCTGTCATCTTTTGAAACGG
AGTTCAACACACAGCCGCATCGTAAGGTAGAAGGAACTTCAACCCTTTTGCTCTCCCCAAAAGAACCGACAAT
CAGATGAAAACAACCTAAAAGACCCTGGGGGCTCCGAGTTCGACTCGATCAGCAAAAACACATGGGCTCCTGCTC
CTGACACATGGGCTCCTGCTCCTGACCAAACCTGAGCAAGACCAGAATAGACTGTCACAGAACTCTGTAAATCTGT
CTCCCAGCAGTCACGCAAACAACCTTATCAGTAGTGACTTACAGTAAGGGGCTCCATGGGCCTTACCCCTTCGGCC
AGTCTTAAACGGGTGTCAGCAAAAAAAAAAAAAAAAAA

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FIGURE 1925

MEGMDVDLDPPELMQKFSCLGTTDKDVLISEFORLLGFQLNPAGCAFFLDMTNWNLQAAIGAYYDFESPNI SVPSM
SFVEDVTIGEGESIPPD TQFVKTWRIQNSGAEAWPPGVCLKYVGGDQFGHVNMMVMVRSLEPQEIADVSVQMCSPS
RAGMYQGQWRMCTATGLYYGDVIWVILSVEVGGLLGVTQQLSSFETEFNTQPHRKVEGNFNPFPASPQKNRQSDEN
NLKDPGGSEFDSISKNTWAPAPDTWAPAPDQTEQDQNRLSQNSVNLSPSSHANNLSVVITYSKGLHGPYPFGQS

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FIGURE 1926

GGCACGAGGGGGTGAGGGTCTGCCTGCCTGTTTCTGTCTGGGTGTCTGAGTTCCAAAAAATGTGTGTTGTTTGT
CCTCCTCATCCTCTTCTGAGACTGTTGTTTTTTTAGAGCTTGATTGTGGGAGAAAAGCTTGTGTGAAATTCCCTC
TTCACCTCCCCACCCCCAAAAATAAAAGGGGGCATAAACTTTATTCCACTGGAGAAGCCCTGGGGGTGGCTGG
AGCCAGCCTGCTGAGAAGCGTGGTGCAGCTGGGTCTGGGACTTCACTAGAGCTTACTCTGGAGCACCTATTTTCT
GTGCACATGGGAGTGCTCCACTCCCTAGCAGAGCAGAGGGAAGTCTCTGCCAGGTACCCACGCCACAGGCCTCAG
GATGGCCTTTTTGTCTGAGGGCCTCATTAGGCCCAGACTGCTGCTGCTGGTACCAGTCTCCTGAGACACTGCCTCC
CTGGAGCCCATGCATGCCCAGCTGTTCTTACTGCTTAGTAGCCTTGAAGCAGCACATCTCCACTGTCCCTGGCAG
GATTGTGGGAGGCTTCACAACCCCTGCTTTCCTGACTTCCTCTTCTGCCCAACACTGGGTGCCCTTCCCAGTTT
CCCAGCAGGGGCTTCATGGGCCACCGTCAGTGGGTCTGGGCCTGCCAGAGTCGTCTTGCTCTTCTCTTGCTTCT
AGGCAACCACACTTGGCAAGTTAAATGTCCCAAGCACCTTGTCTCCCTTCCCAAGAACAAACCATTTCTGTGCAC
ATCCTTGGAGGCGAGATGAGCTCCTTGCAGAGGGCCAGAGTAAGTGCAAGTCATGGAGTGCAGGCAGAGGGGTCC
ATGGCTTCCCCAGCCCAGGGAGGGTATCAGTATCATTCAATTCTCTCTCCCCTCACTGGTATGGGTTTCAGAGCAAT
GCCTAGGGCCCCCTCTCTGCTCCCTGCCTAGTGGGGTGGTAGTGGCTACCTCTCAGCCCCAATAGTCCCTGCTCC
TCTTAGAATCTTACCAAGTGGCAGGCCACCTCTGGGCAGGACCACCTGCGTCTGGCACCCAGGAGGTGAGGCAG
ACACCATGGTTAGGTGATAGGGTCTGAACCCAGTTGGGGAGACAGAGGGGTTTCAGACTTGGGAAGAATCTGTCAG
TGTCATGGAGTGAGGTGTGTGTGTGTGGATGGATGTGCACGTGTGCATGCTTTTTTCTTTTGGCGTGAGGAC
AGTTGAATTTGGGGCATTTTCTACAAGAAGCAGTCAGCCTTCTCTCCCCATAAGGACTGGCTGTAACCTTAAG
CCCATCAAAGTTACTTCCAGCCTGGAGAGAACCTCACCAAACAGCTGGTGTGGCCTGAGGGTGGCCATGGTGGGA
AATGGGCATGAGAATAAATACCTCCCCAAATTCAATCTGAGCCCAGCAGGAGAGGATGGTAGGGTTGCCAGGGCT
CAGAAGTGCAAGCTGATTACTACCCCCACCCTGCCTCGCCGCACCTTTCCTTTGTTTCTTGGGTGAATGCAGGA
GCAGCAGTGGCTGCCCTTCCCACCTGGACAGTGGTGTGTGTAGAAAGCCAGCTGGATGTTTGTGGTGGGGCCTCA
TGGTGCCTAGGAGGAGATAAAGATGAGGAGTTTTTCCTTATTGTATAAATGAATATTTGTATGATTAAATTAAC
ACACACACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1927

MAFCLRASLGPDCCCWYQSPETLPPWSPCMPSCSYCLVALKQHISTVPGRIVGGFTTPAFLTSSSAQHWVPLPSF
PAGASWATVSGSGPARVVLLFLLLLGNHTWQVKCPKHLVSLPKNKPFLCTSLEAR

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FIGURE 1928

AGAGTCGTCTTGCTCTTCCTCTTGCTTCTAGGCAACCACACTTGGCAAGTTAAATGTCCCAAGCACCTTGTCTCC
CTTCCCAAGAACAACCATTTTTTCTTTTGGCGTGAGGACAGTTGAATTTGGGGCATTTTTCTACAAGAAGCA
GTCAGCCTTCTCTCCCCATAAGGACTGGCTGTAAACCTTAAGCCCATCAAAGTTACTTCCAGCCTGGAGAGAACC
TCACCAAACAGCTGGTGTGGCCTGAGGGTGGCCATGGTGGGAAATGGGCATGAGAATAAATACCTCCCCAAATC
AATCTGAGCCCAGCAGGAGAGGATGGTAGGGTTGCCAGGGCTCAGAAGTGCAAGCTGATTACTCACCCCACCCTG
CCTCGCCGCACCTTTCCTTTGTTTCCTTGGGTGAATGCAGGAGCAGCAGTGGCTGCCCTTCCCACCTGGACAGTG
GTGTGTGTAGAAAGCCAGCTGGATGTTTGTGGTGGGGCCTCATGGTGCCTAGGAGGAGATAAAGATGAGGAGGTT
TTTCCTTATTGTATAAATGAATATTTGTATGATTAAATTAACACACACACCAAAAAA

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FIGURE 1929

GTCTGACTTCCTCCCAGCACATTCTGCACTCTGCCGTGTCCACACTGCCCCACAGACCCAGTCCTCCAAGCCTG
CTGCCAGCTCCCTGCAAGCCCCTCAGGTTGGGCCTTGCCACGGTGCCAGCAGGCAGCCCTGGGCTGGGGGTAGGG
GACTCCCTACAGGCACGCAGCCCTGAGACCTCAGAGGGCCACCCCTTGAGGGTGCCAGGCCCCCAGTGGCCAAC
CTGAGTGCTGCTCTGCCACCAGCCCTGCTGGCCCCCTGGTTCCGCTGGCCCCCAGATGCCTGGCTGAGACACGC
CAGTGGCCTCAGCTGCCCACACCTCTTCCCGCCCCCTGAAGTTGGCACTGCAGCAGACAGCTCCCTGGGCACCAG
GCAGCTAACAGACACAGCCGCCAGCCCAAACAGCAGCGGCATGGGCAGCGCCAGCCCGGTCTGAGCAGCGTATC
CCCCAGCCACCTCCTGCTGCCCCCAGACAGGCTGTCGCGGACAGGCTTGAGAGAAGGCGGCAGCGGGGGCAGTGGG
TCTCGAGAGACGGGACTGGAGTCCCAGTCCACCCGCCACGCCCCAGCAGGGCCTGTCCGCCTTCTACCTCTCCTA
CTTTGACATGCTGTACCTGAGGACAGCAGCTGGGCAGCCAAGGCCCCCTGGGGCCAGCAGTCGGGAGGAGCCACC
TGAGGAGCCTGAGCAGTGCCCGGTTCATTGACAGCCAAGCCCCAGCGGGCAGCCTGGACTTGGTGCCCGGCGGGCT
GACCTTGAGGAGCACTCGCTGGAGCAGGTGCAGTCCATGGTGGTGGGCGAAGTGCTCAAGGACATCGAGACGGC
CTGCAAGCTGCTCAACATCACCGCAGATCCCATGGACTGGAGCCCCAGCAATGTGCAGAAGTGGCTCCTGTGGAC
AGAGCACCAATACCGGTGCCCCCATGGGCAAGGCCTTCCAGGAGCTGGCGGGCAAGGAGCTGTGCGCCATGTC
GGAGGAGCAGTTCGCCAGCGCTCGCCCCTGGGTGGGGATGTGCTGCACGCCCACCTGGACATCTGGAAGTCAGC
GGCCTGGATGAAAGAGCGGACTTCACCTGGGGCGATTCACTACTGTGCCTCGACCAGTGAGGAGAGCTGGACCGA
CAGCGAGGTGGACTCATCATGCTCCGGGCAGCCATCCACCTGTGGCAGTTCCTCAAGGAGTTGCTACTCAAGCC
CCACAGCTATGGCCGCTTCATTAGGTGGCTCAACAAGGAGAAGGGCATCTTCAAATGAGGACTCAGCCCAGGT
GGCCCGCTGTGGGGCATCCGCAAGAACCCTCCGCCATGAACTACGACAAGCTGAGCCGCTCCATCCGCCAGTA
TTACAAGAAGGGCATCATCCGGAAGCCAGACATCTCCAGCGCCTCGTCTACCAGTTCGTGCACCCCATCTAGAGT
GCCTGGCCCAGGGCCTGAAACCCGCCCTCAGGGGCCTCTCTCCTGCCTGCCCTGCCTCAGCCAGGCCCTGAGATG
GGGAAAACGGGCAGTCTGCTCTGCTGCTCTGACCTTCCAGAGCCCAAGGTCAGGGAGGGGCAACCAACTGCCCC
AGGGGATATGGTCTCTGGGGCCTTCGGGACCATGGGGCAGGGGTGCTTCTCCTCAGGCCAGCTGCTCCCC
TGGAGGACAGAGGGAGACAGGGCTGCTCCCCAACACCTGCCTCTGACCCAGCATTTCCAGAGCAGAGCCTACAG
AAGGGCAGTGA CTGACAAAGGCCACAGGCAGTCCAGGCCTCTCTGCTCCATCCCCCTGCCTCCATTCTGCA
CCACACCTGGCATGGTGCAGGGAGACATCTGCACCCCTGAGTTGGGCAGCCAGGAGTGCCCCCGGGAATGGATAA
TAAAGATACTAGAGAACTG

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FIGURE 1930

MGSASPGGLSSVSPSHLLLPPDTVSRTGLEKAAAGAVGLERRDWSPSPPATPEQGLSAFYLSYFDMLYPEDSSWAA
KAPGASSREEPPPEEQCPVIDSQAPAGSLDLVPGGLTLEEHSLQVQSMVVGEVLKDIETACKLLNITADPMDW
SPSNVQKWLWTEHQYRLPPMGKAFQELAGKELCAMSEEQFRQRSPLGGDVLHAHLDIWKSAAWMKERTSPGAIH
YCASTSEESWTDSEVDSSCSGQPIHLWQFLKELLLKPHSYGRFIRWLNKEKGIFKIEDSAQVARLWGIRKNRPAM
NYDKLSRSIRQYYKGIIRKPDISQRLVYQFVHPI

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FIGURE 1931

CGGCGGCCGAGCTCGCGCATCCCAGCCATCACTCTTCCACCTGCTCCTTAGAGAAGGGAAGATGAGTGAGTCGAG
CTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCG
CAAGCAGCCTCCGGTGAGTCCCGGGACAGCGCTGGTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACACCTAA
GAGACCTCGGGGCCGACCAAAGGGAAGCAAAACAAGGGAGAAGGAGGAAGAGGAGGGGCATCTCGCAGGAGTCCT
CGGAGGAGGAGCAGTGACCCATGCGTGCCGCCTGCTCCTCACTGGAGGAGCAGCTTCCTTCTGGGACTGGACAGC
TTTGCTCCGCTCCACCGCCCCCACCCTTCCCCAGGCCCCACCATCACCACCGCCTCTGGCCGCCACCCCCATCT
TCCACCTGTGCCCTCACCACCACACTACACAGCACACCAGCCGCTGCAGGGCTCCCATGGGCTGAGTGGGGAGCA
GTTTTCCCTGGCCTCAGTTCCAGCTCCCCCGCCCCACCCACGCATACACACATGCCCTCCTGGACAAGGCTAA
CATCCCACTTAGCCGCACCCTGCACCTGCTGCGTCCCCACTCCCTTGGTGGTGGGGACATTGCTCTCTGGGCTTT
TGGTTTGGGGGCGCCCTCTCTGCTCCTTCACTGTTCCCTCTGGCTTCCCATAGTGGGGCCTGGGAGGGTTCCCTT
GGCCTTAAAAGGGGCCCAAGCCCCATCTCATCTGGCAGCGCCTACTCCACTGCCCTGGCAGCAGCAGGTGTGGC
CAATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAACTGTCTTTGTACCACGTGGGGCTCACTTTTCA
TCCTTCCCCAACTTCCCTAGTCCCCGTAAGTTGGACAGCCCCCTTCGGTTACAGGAAGGCAGGAGGGGTGAG
TCCCCTACTCCCTCTTCACTGTGGCCACAGCCCCCTTGCCCTCCGCCTGGGATCTGAGTACATATTGTGGTGATG
GAGATGCAGTCACTTATTGTCCAGGTGAGGCCCAAGAGCCCTGTGGCCGCCACCTGAGGTGGGCTGGGGCTGCTC
CCCTAACCCTACTTTGCTTCCGCCACTCAGCCATTCCCCCTCCTCAGATGGGGCACCAATAACAAGGAGCTCAC
CCTGCCCGCTCCCAACCCCCCTCCTGCTCCTCCCTGCCCCCAAGGTTCTGGTTCCATTTTCTCTGTTCACAA
ACTACCTCTGGACAGTTGTGTTGTTTTTGTTCATGTTCCATTCTTCGACATCCGTCATTGCTGCTGCTACCAG
CGCCAAATGTTATCCTCATTGCCTCCTGTTCTGCCCACGATCCCCCTCCCCCAAGATACTCTTTGTGGGGAAGAG
GGGCTGGGGCATGGCAGGCTGGGTGACCGACTACCCAGTCCCAGGGAAGGTGGGGCCCTGCCCCTAGGATGCTG
CAGCAGAGTGAGCAAGGGGGCCCCAAATCGACCATAAAGGGTGTAGGGGCCACCTCCTCCCCCTGTTCTGTGGGG
AGGGGTAGCCATGATTTGTCCCAGCCTGGGGCTCCCTCTCTGGTTTCCTATTTGCAGTTACTTGAATAAAAAAAA
TATCCTTTTCTGG

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FIGURE 1932

GGTGGCCACAGAGCAACTTCCTCTAGAGGGAGCTGATTGGAGCCGGGTGCCGCTGGCACCTCTATGATCACTGGA
GTCTCGCGGGTCCCTCGGGCTGCACAGGGACAAGTAAAGGCTACATCCAGATGCCGGGAATGCACTGACGCCCAT
TCCTGGAAACTGGGCTCCCACTCAGCCCCTGGGAGCAGCAGCCGCCAGCCCCCTCGGGACCTCCATCTCCACCCTG
CTGAGCCACCCGGGTGTTGGGCCAGGATCCCGGCAGGCTGATCCCGTCTCCACTGAGACCTGAAAAATGGCTTCGG
GGCAAGGCCCAGGTCTCCAGGCAGGAGTGCAGGAGAGCCTGCCCTGCCCTCTGCTTCTGCAGGAACAGGAGGCT
GAAGGGGTGGCTGCCCCTGCCGACCCAGAGATGGTCACCTTACCTCTGCAACCTACAGCACCATGGGGCAGGTGG
GACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAGACCATGTTGCAGCACC
TGCAGCCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCACCAGCCTGTTTGAGAGTGGCATCAATT
GGGGCCGTGTGGTGGCTCTTCTGGGCTTCGGCTACCGTCTGGCCCTACACGTCTACCAGCATGGCCTGACTGGCT
TCCTAGGCCAGGTGACCCGCTTCGTGGTGCAGTTTCATGCTGCATCACTGCATTGCCCGGTGGATTGCACAGAGGG
GTGGCTGGGTGGCAGCCCTGAACCTTGGGCAATGGTCCCATCCTGAACGTGCTGGTGGTTCTGGGTGTGGTTCTGT
TGGGCCAGTTTGTGGTACGAAGATTCTTCAAATCATGACTCCCAAGGGTGCCCTTTGGGGTCCCGGTTTCAGACCC
CTGCCTGGACTTAAGCGAAGTCTTTGCCTTCTCTGTTCCCTTGCAAGGGTCCCCCTCAAGAGTACAGAAGCTTT
AGCAAGTGTGCACTCCAGCTTCGGAGGGCCCCCTGCGTGGGGGCCAGTCAGGCTGCAGAGGCACCTCAACATTGCA
TGGTGTCTAGTGGGCCCTCTCTCTGGGCCCAGGGGCTGTGGCCGTCTCCTCCCTCAGCTCTCTGGGACCTCCTTAG
CCCTGTCTGCTAGGCGCTGGGGAGACTGATAACTTGGGGAGGCAAGAGACTGGGAGCCACTTCTCCCCAGAAAGT
GTTTAACGGTTTTAGCTTTTTATAATACCCTTGTGAGAGCCCATTCACCATTCTACCTGAGGCCAGGACGTCT
GGGGTGTGGGGATTGGTGGGTCTATGTTCCCCAGGATTGAGCTATTCTGGAAGATCAGCACCTTAAGAGATGGGA
CTAGGACCTGAGCCTGGTCCTGGCCGTCCCTAAGCATGTGTCCAGGAGCAGGACCTACTAGGAGAGGGGGGCCA
AGGTCTCTGCTCAACTCTACCCCTGCTCCCATTCCCTCCCTCCGGCCATACTGCCTTTGCAGTTGGACTCTCAGGGA
TTCTGGGCTTGGGGTGTGGGGTGGGGTGGAGTCGACAGACCAGAGCTGTCTGAACTCACGTGTGAGAAGCCTCCAA
GCCTGCCTCCCAAGGTCTCTCAGTTCTCTCCCTTCTCTCTCCTTATAGACACTTGCTCCCAACCCATTCACTA
CAGGTGAAGGCTCTCACCCCCATCCCTGGGGGCCTTGGGTGAGTGGCCTGCTAAGGCTCCTCCTTGCCAGACTA
CAGGGCTTAGGACTTGGTTTGTATATCAGGGAAAAGGAGTAGGGAGTTCATCTGGAGGGTTCTAAGTGGGAGAA
GGACTATCAACACCACTAGGAATCCAGAGGTGGGATCCTCCCTCATGGCTCTGGCACAGTGTAAATCCAGGGGTG
TAGATGGGGGAACTGTGAATACTTGAACCTCTGTTCCCCCACCCTCCATGCTCCTCACCTGTCTAGGTCTCCTCAG
GGTGGGGGGTGACAGTGCCTTCTCTATTGGGCACAGCCTAGGGTCTTGGGGGTGAGGGGGGAGAAGTTCTTGATT
CAGCCAAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCCCCTATCCTCTGAGTGTGTGGAAATAAACT
GTGCAATCCCCTC

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FIGURE 1933

MGQVGRQLAIIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYRLALHVVYQH
GLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNLGNGPILNVLVVLGVVLLGQFVVRREFKS